

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Michael Connor" <mikec@primenet.com>
Subject: [2261] 10 turn for 40A/Thanks
Message-ID: <199610181635.JAA17188@primenet.com>

Gang,
Thanks to all who responded to my inquiry
about a 10 turn pot for my Norcal 40A.

Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Kirkekirk@aol.com
Subject: [2299] 160 Meter Beacon This Weekend!
Message-ID: <961018220810_546430979@emout19.mail.aol.com>

Gang

I have now on a 160m attended beacon.

Rig QRP Plus
Freq 1.824
Time 8PM est till ?
Day Friday
Ant 160m Loop horizontal at 25 feet
Power .25 watts

QTH Canton, Ohio also near the Erie Canal

Kirk

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Bob Kellogg <ae4ic@nr.infi.net>
Subject: [2285] 40-9er Contest
Message-ID: <199610182042.QAA00027@mh004.infi.net>

Guys, don't forget the 40-9er contest coming up during weeknights, Nov. 11-15th.

Rules will be posted again about 1 week before the contest.

There's still time to get a 40-9er and build it!

Good luck in the QRP ARCI Fall QSO Party this weekend!!

CUL,
Bob Kellogg, AE4IC
Probably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: beacon_wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [2286] 80 meter Beacon & pics
Message-ID: <19961017.165536.16615.0.Beacon_WB8YGG@juno.com>

Sometimes it's nice to see where a beacon is coming from..
First off I am in Brockport, NY

FN13AD

I forgot to mention that in the previous post.
Also, I am 1 block south of the famous Erie Canal.

First is an exterior view of the shack in our OLD house.

<http://qrp.cc.nd.edu/qrp-1/miscpics/wb8ygg/outshack.jpg>

Second is a picture of the 980, and the rest of the shack.

<http://qrp.cc.nd.edu/qrp-1/miscpics/wb8ygg/shakin1.jpg>

If , and when any homebrewing occurs.. Here is the
corner of my life where it is..

<http://qrp.cc.nd.edu/qrp-1/miscpics/wb8ygg/work.jpg>

73 everybody and have a great weekend!

Brad WB8YGG

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: beacon_wb8ygg@juno.com (Bradley S. Mitchell)
Subject: [2272] 80 Meter Beacon This Weekend!
Message-ID: <19961017.140917.9311.0.Beacon_WB8YGG@juno.com>

Starting tonight!

Ok here it is.

I'll be running an 80 meter beacon this weekend.

Details:

Rig: FT-980

Power: 100mw fixed

Frequency: 3.564.50 MHz

Antenna: Dipole. 70 ft high on north end, 50 ft high on south end.

Keyer: Atomic Keyer AK-1.

Date: October 18,19,20

Times:

Friday from 5:00 PM EST to 11:00 PM EST (10/18/96)

Saturday from 4:00 PM EST to 1:00 AM Sunday Morning EST

Or In Coordinated Universal time:

Friday from 21:00 UTC to Saturday 03:00 UTC

Saturday from 20:00 UTC to Sunday 5:00 UTC

This Beacon will be attended.

Please e-mail reports to this address only Beacon_WB8YGG@juno.com

Format:

Name Brad

Callsign WB8YGG

Time/Date Heard 0200Z/10/18

RST 349

Code Word ????

Equipment Homebrew

Yep, there will be a code word.. 4 letters long.

All reports appreciated!

73 , Brad WB8YGG

----- End forwarded message -----

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Ron Giuntini <rong@slip.net>
Subject: [2304] 8088 Logger
Message-ID: <E0vERmm-0001ji-00@ferret.slip.net>

I have a 8088 IBM computer doing nothing at all...I would love to have any type of logging program that is on a old 5 1/4" disc. 360k I think....The computer is the original IBM that started it all...I would like to utilize it in the shack...Anything still available for this one??

Ron KB6GK
NorCal #1718
San Francisco

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: AE0Q / V31RY <v31ry@ix.netcom.com>
Subject: [2278] ARCI Contest
Message-ID: <2.2.16.19961018131334.2a57a202@popd.ix.netcom.com>

If anyone needs Wyoming for W.A.S., I'll be operating the contest this weekend (AE0Q/7), and will be on 80m, 40m and 20m.. I plan to work the max time allowed, unless some wild weather chases me out.. I'll be in my camper at 8200ft, but the heater works and should be snug and warm (I hope!)..

Will be using a Carolina Windom at 40ft and an 80m vertical (66ft, over and across a tree, 6 radials).. Hope to see everyone on the air!

CUL -- Glenn

Duct Tape is like the Force: It has a light side, and a dark side,
and it holds the Universe together.

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Allen Jones <ajones@adsnet.com>
Subject: [2245] ARCI Contest Logging SW
Message-ID: <1.5.4.16.19961018085327.2f37c8f2@206.158.2.1>

Thanks to all (many!) the folks that replied to my request regarding logging programs

72/3 de Allen, K9DZE
ajones@adsnet.com
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From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [2262] DSP-40
Message-ID: <Pine.SUN.3.91.961018103230.29846A-100000@kitsune.swcp.com>

I just returned from my local Radio Shack with my new dsp-40. Hooked it up and went to 40cw. Right away I noticed a big difference! Works almost as good as the filter in my R-390 boatanchor. For 27 bucks you can not beat it! Makes my ic-706 a dream to use on cw!.

Now, as far as that lil fox goes, he can hide in the bushes and I will find him now! All I need is a little time off from work to go hunting! I missed the last two foxes account of work so I'm 4 for 6, or is it 7? I think I missed a Novice Fox! Anyone ever run qrp train mobile? I'm thinking of trying it. How about a 65 car long wire for an antenna?! Should have a good counterpoise with all that steel. "Happy Rails" to you.....Tom WB5QYT qrp-1 640

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: ka7you@juno.com
Subject: [2283] Female hams-Yes!
Message-ID: <19961018.133209.7166.16.KA7YOU@juno.com>

Greetings,

I think the person who first posted the comment (I'd deleted it before deciding to respond) about the lack of female operators, was just "pulling our 'collective' chain".

Granted, they are in the minority, but if that person participated in any ham related activities, such as meetings, swap meets, conventions etc, he will see (excluding the possibility of being visually challenged) many female licensees.

Here in the Northwest Region of the ARRL, We have two fine ladies vying for the right to represent our area at the national level.

There about a dozen licensed female hams in the two clubs to which I belong, and one is an extra class QRP operator.

Every public service event that I have attended has had female operators and I'm sure the Northwest region is not unique in that regard, but if it is, it is just one major reason to live here!

Long live the ladies!
Rod Johnson KA7YOU NWQRP #120

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2268] Filter performance ... results!
Message-ID: <3267c19d.pandora@pandora.lugs.org.sg>

Hi Gang,

Well, I did it... desoldered the original bandpass filter before the RF pre-amp in the ARK-20 (seemed like the right one to desolder) and plugged in the filter module I just built and tested. A few things:-

1. Bandwidth. The bandwidth of the filter is fairly wide actually, about 500 kHz, depending on the coupling trimmer's capacitance.
2. The loss through the filter is less than in the original filter in the ARK which used slug tuned inductors in metal cans. Consequently, there is more signal coming in, and sensitivity went up.
3. Tuning a filter in-situ is not as straight forward as one might think. I always thought that all I had to do was to peak the filter and that was that. However, now that I have my sig. gen. set for sweep mode, I see a completely different picture altogether. The filter is now subject to a load reactive/capacitive load and the shape of the filter is no longer a simple peak or double-hump. What I do is to move the peak to about 1 MHz off where the rest of the circuit has less effect. There I peak it and slow move the peak towards 14.100 MHz. At around that frequency, you will see the peak get distorted by the circuit drawing power from the filter but you know that the peak is in the right place.
4. The band-edge roll-off can be optimized to be steeper at either end, or be made symmetrical. I opted to make it steeper at the lower end because I wanted to eliminate BCI at 13.800 MHz. The sweep shows that this is still pretty close to 14.000 MHz and if I had peaked the filter at 14.050 MHz or so, 13.8 MHz will still be high on the slope. My filter is therefore peaked at 14.3 MHz. This means that optimal performance is not being achieved but this is still acceptable. In fact, due to the lower loss of the filter, performance is actually better than the previous filter optimized for 14.050 MHz or so. Doing this also puts the BCI way down and solves my problem.
5. I built the filter on a tiny strip of matrix board with non-interconnecting pads (the kind used for wire wrap sometimes). The form factor was small enough to occupy the space where the original 2

metal can inductor used to be. This module included 3 trimmers and now that I have messed around with it, I must say that having them there saved me an enormous amount of effort.

6. The filter can be coaxed into many shapes, and some of the shapes can be quite useful. For some bandwidths, a fairly flat response can be attained without sacrificing filter skirt. However, for bigger bandwidths, it tends to go into the double-hump shape ("M" shape). However, in my application, I need the narrowest bandwidth possible so I peaked the filter for one single peak.
7. Subjectively, I think the receiver is actually more sensitive now with the filter, and signals are sounding even better than before. I cannot determine the exact MDS because my sig. gen. can only go as low as -132 dBm and the ARK still hears it at that level.

So, there you have it ... from theory, to prototype, to actual application. It was a fascinating experience and I must attribute it largely to the availability of a frequency sweep configuration that allowed me to see the exact filter response on the scope as I tweak the filter. A lot of the theoretical stuff makes a lot of sense when you can see it actually take place in real time. So if you have a sig. gen. with a sweep facility and haven't gotten round to trying it out, now you know what you're missing.

Also, I'd like to thank all the people who have helped in various ways, educating me in my little experiment here. I am going to spend some more time with the mathematics till I figure out how it all comes together, or until I give up, whichever comes first. Thanks guys, you fellas are the greatest.

73 de 9V1ZV Daniel

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*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      | danwee@singnet.com.sg    |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
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From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2232] Filter: Theory to Practice - Ground Zero
Message-ID: <3267664a.pandora@pandora.lugs.org.sg>

Hi Gang,

Okay, I have now built an actual version of the filter design I posted

earlier and am taking measurements on it.

Basically, I am using my sig. gen. to generate a sweep over the 14 MHz range and looking at the filter response into a 50 ohm load on my scope. I must say (this being my first time playing with the sweep) that this is a really neat way of evaluating filters. You can see the response shape right on the screen of the scope.

Anyway, with a few trimmers I can vary the passband from a two-hump response to a flat response, to a peak response. However, I am not able to alter the steepness of the skirt. Which part of the filter design determines how sharp this thing can be? I am guessing that this has to do with the Q of the transformer. I am now using T37-6 for the transformers. Can anyone recommend a better choice so that the filter has higher Q?

Thanks.

73 de 9V1ZV Daniel

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*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg                    |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
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From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [2229] FOX: The snare is bare!
Message-ID: <5F280B326D@dental3.ab.umd.edu>

See you take a young willow about 1/4 wave lenght at 40M and you bend it ever so gentle till the end is about down to the ground. Then this end is fixed with some 300 ohm lead line to a tuner that will just hold the end there. Now the snare is made of fishing line of 5 watt strength. You ply it for two hours and hope the Fox (!) wanders by. But you must stay hidden or he'll wander off. I heard his tracks. All the hunters hereabouts (Md.) were getting their pelts but alas -- the snare is bare.....but not for long. It's still sitting there and I hear the season lasts for a long, long time. Aha, next week might even be better. I be quieter and sit real still, maybe even put on some skunk smell so he'll think there's no one there and then I'll pounce.

Congrats to those who did, and reload for next week because its a new game.

John <N3REY>

Always QRP!

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Denton Bramwell" <denton@cyber-west.com>
Subject: [2279] free stuff (and worth it!)
Message-ID: <01BBBCF6.5B752080@async9_routerb_layton.cyber-west.com>

I did it again.... bid on, and got a bunch of gov't surplus stuff. I did get the nice piece of test equipment I wanted, but also got a BUNCH of other stuff that I don't... in fact, REALLY don't.

I live about 20 minutes north of Salt Lake. The following stuff is free if you come pick it up, or get someone to pick it up for you... in a week or so, it leaves here one way or another:

Heavy duty ground strap, braided... several pieces, about 15-20 ft ea.

QRP rig containers... at least they will be, once you remove the tube type circuitry presently inside, and Dremel off the "ears". About 4x6x1". About 10 of them, unused.

Test set.... or should I say "jumbo QRP box, thick aluminum"? Toss the contents, and put your whole system in this new, nice looking hinged box, about 8x8x8.

Gould chart recorder

22 volt 2.5 HP motors, about the size of a starter motor... half a dozen of them.

115 VAC open frame shaded pole motors...new, suitable for fans, etc.

Vibration test set... no transducers, made by Bell and Howell.

Precision .11 ohm resistors...

RG022 shielded twinlead, new... probably about 100 feet.

Also, I got 4 very nice resolvers, that the taxpayers spent \$533 on... I know they are some kind of rotary position indicator... about 8 leads... small device, like a toy DC motor, but very finely built. Anybody got any info on characteristics, and possible uses?

Denton
K7OWJ

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [2254] FS: Heath 2140 wattmeter, MFJ-784B DSP, etc.
Message-ID: <Pine.3.89.9610181046.A18416-0100000@w3eax.umd.edu>

For sale:

Heath 2140 dual wattmeter, good for 2 kW but reads down to 10 watts with ease (maybe less, but not marked for accuracy). Reads PEP and avg power, with photocopy of manual, Heath green in excellent shape. \$80.

MFJ-784B DSP in excellent condition. Manual, box included, \$180.

MFJ-202 RX noise bridge, excellent condition, with manual \$35.

Hustler 5BTV trap vertical in fair shape; need new trap caps, 80m trap in rough shape, most hardware recently replaced with stainless. \$50.

OB QRP: W3EAX, U of MD ARA, ranked 11 out of 23 in the class 1A battery Field Day results. I'm pretty proud of the these results considering the club's apathy over the last few years at operting HF...

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
*** 6m 75 grids worked on 8 watts *** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC *** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w *** 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [2250] Germ. Diode mixer reply-Summary
Message-ID: <v03007802ae8d17a031ca@[132.235.72.11]>

Gang,

Following my question of why germanium diodes might not be good selection for the ring mixers, I got the following replys:

They have a much greater reverse leakage, which almost certainly would reduce the performance of the mixer.

However, one has to ask "why is a lower forward voltage drop better?". The diodes in a balanced mixer ring are being used as switches, not rectifiers, and the forward voltage drop mostly seems to influence

the necessary LO drive level. The considerably worse reverse bias isolation of the Ge diodes is a pretty big disadvantage when compared with the higher LO drive requirement of the Si diodes. I can't help but wonder if the Ge diodes would result in a compromised IMD characteristics, too.

Dana KK6JQ
Dana@Source.Net

>> Any want to venture a guess, I mean, tell why germaniums aren't good?
>
>Who says germaniums aren't any good? My grandmother used to love germaniums
>-- she grew them in a box on the windowsill. It's one of my fondest
>childhood memories....

Yes, but did she use them in her kitchen food mixer? Hee hee! (Sorry Pat, I couldn't resist that!! NS80)

Pat Taber

From: "Tim Glennon (KQ4TQ)" <tpga@eci-esyst.com>

Probably the most logical reason that the germanium diodes aren't used is because of the VHF, UHF GHz switching speed. Ideally one would like to operate the mixer in a switching mode. Where the diode is either on or off and spends no time in transition state. This provides the mixing characteristics desired and results in very high dynamic range. Since this is impossible they use the fastest diodes available e.g. schotky...

In your case you are using the mixer at VLF frequencies and the germanium diodes would probably work just fine. I have personally built 0.25 uV receivers at Hi band VHF FM using only a bandpass filter ahead of the mixer (a diode ring). As long as you are providing adequate LO drive you shouldn't have a problem.

RF Design May, 1992 pag 76 has a good article by Gary Breed.
Microwaves & RF, December 1987 Page 113 has a excellent article on the tangential sensitivity of diodes.

Thanks all! NS80

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Mike Boice <kd0fx@worldnet.att.net>
Subject: [2266] Getting feedlines thru window question
Message-ID: <1.5.4.32.19961018172410.00671ec8@postoffice.worldnet.att.net>

With colder wx coming on now, I'll be moving my rig inside the house from my current unheated, uncooled, unventilated shed. Problem: it's a rental house & I can't hack a hole in the wall or eaves to run coax & 450 ohm window line in. I figured I'd insert a 2-3" wide board in one of the dining room horizontal-sliding windows, sandwiching the board between the window & side frame. Then I'd cut a hole large enough to run 2 or 3 coax lines & window line thru. Sealing this hole up from the wind is my big question.

I'd thought about cutting a 6" or so piece of bicycle tube & running it through the hole, & allowing the cables to run through it. Then I'd run a bead of caulk between the tube & wooden board. A cable tie on each end of the tube (i.e. one inside, one outside) would cinch everything down fairly tight, yet I could still snip the cable tie & insert more/remove cable.

Anyone see any problem with this, or (better yet) have a better solution?
73,
mike KD0FX
Richland WA QRP-L #576 QRP ARCI #9270

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Russ Garner <71544.1645@compuserve.com>
Subject: [2215] HB: WM-2 Wattmeter
Message-ID: <961018042722_71544.1645_EHL57-1@CompuServe.COM>

Hello from Howdy Land (Iowa):
Finished assembling the OHR WM-2 wattmeter Wed. the 16th.
Had fun.
Works well.
Looks good.
Feels nice.
Asthetically pleasing.

Pleasant project.

Russ

WA0UIG/Marion, Iowa

QRP-L #734

(<One Evil Empire down, one to go.>--Michael Moore)

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: "Seabury Lyon, AA1MY" <SSLYON@postoffice.worldnet.att.net>

Subject: [2294] HELP!!! Broadcast intermod

Message-ID: <19961018230529.AAA15515@LOCALNAME>

Not QRP ONLY, but I'm in a real jam... JOTA tomorrow, ... got the rig and antenna working this afternoon, and find....THERE'S A BROADCAST STATION ON THE NEXT HILL (' 1,000 YDS) AND AS LOUD AS ME ON THE FT-900!!! We're running on battery, w/counterpoise and SHALLOW ground. On SSB, at normal mike level it's loud as the mike. (PTT) With mike gain = 0, no problem. Please don't say CW is the only answer. We've got >200 scouts setting up tents, etc, tonite! Signed, Sleepless in Bethel, CT.

Seabury "Seab" Lyon AA1MY

44 Codfish Hill Road

Bethel, CT, 06801, USA

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: Dave Adams <adamsclan@netgate.net>

Subject: [2213] HW-8 owners please read

Message-ID: <3266FCD7.245C@netgate.net>

Greetings! I am trying to nurse a hw-8 back to health. I have scoped out a few parts and joints for replacement, but one thing has me stumped. I'm wondering if someone can peek in their rig and give me a pointer. There is a wire on the circuit board near the back panel. It is 1/4" to the back and left of the wire at hole 'Y' and just above cap c125 (to the right of the diode chain....d22-d29). Can ANYONE tell me where the other end of this wire goes? I can find no reference in the manual or the schematic I have...very weird...

73 de dave, n9uxu

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: d.nordquest@juno.com
Subject: [2233] HW-8 Wire to Right of D23
Message-ID: <19961018.082619.4783.2.d.nordquest@juno.com>

There's no wire there in mine! Just a hole.
Dave KE9ED

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: [2297] Inductance calculator
Message-ID: <Pine.GS0.3.93.961018152219.362A-100000@uhunix2.its.Hawaii.Edu>

Thought this might be of interest to the homebrewers amongst us.
Jeff KH2PZ

-----Begin Emil's coil file-----
I have uploaded on oak.oakland.edu in the directory:
 /pub/hamradio/ham-utils coil200.zip
COIL version 2.00
This program computes the electrical self inductance of various
shapes and sizes of air core coils:
 - Single-layer circular solenoid of round wire
 - Multilayer circular solenoid
 - N-turn circular loop
 - Circular solenoidal current sheet
 - Straight round wire
 - Circular toroid, circular winding
 - Circular torus ring, rectangular winding
 - Single-layer square solenoid
 - Multilayer square solenoid (low precision)
and the LC parameters at resonance:
 - Inductance at resonance
 - Capacity at resonance
 - Frequency at resonance
 - Impedance of LC
The program is "Cardware". (i.e. freeware but you'll have to send me a
postcard if you use it).
 Emil LAURENTIU

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: chuckolson@juno.com (Chuck Olson)
Subject: [2237] Inexpensive memory keyer
Message-ID: <19961018.072738.4871.0.chuckolson@juno.com>

I'll join in this keyer frenzy with another blurb on my commercial entry:

The WB9KZY memory keyer kit is currently shipping:

- 4 pushbutton selected memories (120 characters each - nonvolatile EEPROM)
- Iambic keying (mode B)
- sidetone variable from approx. 400 hz to 1200 hz
- code speed set via potentiometer, variable from 7 to 48 WPM
- low standby power consumption (about 3 ua at 3 V, without regulator)
- small size (circuit board is 1.5 by 2 inches)
- keyer can be operated without memory for even lower power and fewer switches
- low cost:

Keyer Chip (with documentation),
\$5

Chip + circuit board,
\$13

semi kit (chip, board and all board mounted parts), \$20

add \$2 for shipping in US (those outside the US, please inquire for shipping costs)

Please email for more info (including gotchas): chuckolson@juno.com

Jackson Harbor Press
N21W1418 Foss Road
RR1, Box 91C
Washington Island, WI 54246-9718

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Stan Goldstein <stan@cruzio.com>
Subject: [2218] k5fo pacifcon talk time ?
Message-ID: <3266FD94.3928@cruzio.com>

Hey Chuck , What time is your speech/big surprise ?

I heard the big surprise was to present the only 2 time fox champ

with a new car, and I wouldn't want to miss that..

Stan , N6ULU

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [2288] K8DD/C6A & AC8W/C6A QRP DXpedition
Message-ID: <2.2.32.19961018202543.0068d29c@tir.com>

Stan, AC8W, and I will be going to the Bahamas (Treasure Cay) October 23 through October 30. We will be Multi-Single in the CQ WW SSB contest over the weekend.

Since we do not want to interfere with the Foxes on Oct. 23, 24 & 29, we will try to devote Oct 28 to QRP, 7040 to 7050. That's October 28 LOCAL time for the U.S. We will probably switch calls every hour, and stay as long as there are QRP stations to work.

So look for us starting about 8:00 PM Eastern Time October 28
7:00 PM Central Time October 28
6:00 PM Mountain Time October 28
5:00 PM Left Coast Time Sometime in October
0100 GMT October 29

There are no Fox points involved here. The exchange will be RST & State. Most anything else is optional. We will be sending QSL's via the U.S. Bureaus or direct via our home calls. Everyone we work will get a card via the bureau.

73 Hank K8DD/C6A \
--> Next week!
Stan AC8W/C6A /

AC8W = sarnett@netra.stclair-ph.lib.mi.us
K8DD = k8dd@tir.com

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "John Shuster" <jshuster@ix.netcom.com>
Subject: [2214] Kenwood R-2000 Digital Display Cal
Message-ID: <199610180420.VAA28463@dfw-ix7.ix.netcom.com>

Kenwood has not been responsive, so I'm turning to the list for help.

I have an R-2000 whose digital display reads high. When the signal is at 7.040.0, the display reads 7.040.5. I could probably just use kentucky windage and live with it, but I'm a perfectionist. If there's a pot I can turn, I want to turn it! It's the challenge of making it right.

Does anyone have a service manual on this receiver? It has to be a simple adjustment.

Thanks,

John

```
+++++
Father John Shuster, Married Roman Catholic Priest  jshuster@ix.netcom.com
Need A Priest? Rent-A-Priest! 1-800-PRIEST-9 A Free Referral Service
At the foot of the Olympics in little Port Orchard, WA
KC7CKP AE ARCI 8951 QRP-L 554 ARS 36 NW QRP 346 WWDXC ARRL
+++++
```

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [2267] Keyers: personal tale
Message-ID: <199610181736.MAA08555@multi2.pic.net>

Steve, you wrote:

> To tell the truth, I still haven't learned to send well with a keyer, and
> still use my straight key!

I understand. Way back when, in a galaxy far far away, I learned morse code on a straight key. Got pretty good at it too, but I ran out of speed. So one day I spent a dollar at a flea market and came home with an Electronic Keyer and Paddle. This had a couple of tubes as multivibrators and two straight keys mounted back to back for the paddle. The multivibrators were never properly adjusted, so I think the weighting was about 2-1 instead of 3-1, but I QSOed merrily along, never realizing what pain and anguish I was unleashing on the other end. Then one night, I called a guy with a nice high speed fist, and we started a good ragchew. Found out he lived just a couple miles away. For some reason, he asked what kind of key I was using, so I told him about the Electronic Keyer and Paddle. Fifteen minutes later, he was at the door with a Vibroplex bug for unlimited loan. This was one of the finest acts of charity I have ever witnessed; he helped save untold thousands of folks who were listening to my signal. For many years, I used that bug and got pretty good at it too.

One time, I was up for examination at the FCC for the second class radiotelegraph license. The code test was 25 wpm sending and receiving. The examiner brought out the old paper tape morse sender for the receiving test and that was no problem. After I passed that, he brought out the straight key. This was the same one I passed my general, advanced, and extra class tests on. In fact, this was the same key that the old spark guys had used to pass their tests. It weighed fifty pounds and could pass 700 amps. I was prepared and had brought my faithful bug, so I pulled it out. The examiner said, "You can't use that here!", and he meant it. So with great pain, I just barely managed to squirt out enough morse at 25 wpm to pass the test, but my wrist still hurts when it rains or I try using a straight key. A few years after that, electronic keyers were becoming more commonplace, and when Curtis came out with the first keyer IC, I built one. It took years for me to stop trying to send individual dashes. I've almost succeeded. Of course, my straight key work has languished. When I built the 40-9er, the only thing I had to key it with was the old straight key. This led to the desire to build in a tiny keyer and consequently, the Nit-PIC-Key. In conclusion, I guess I just have to say that I can no longer send well on a straight key, bug, or keyer (iambic mode A, B, AB1, or C)!

Mike K1MG

PS - A couple messages on QRP-L piqued my curiosity so I recently tried sending code on the keyer with my left hand. It was impossible until I turned the paddles upside down so the thumb on the left did the same job as the thumb on the right. (Did you get that?) I was amazed when proper morse just flowed on out like I'd been doing it lefthanded for decades. Weird.

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: kb0rol@juno.com (Bradley L Mugleston)
Subject: [2302] Long wire antenna
Message-ID: <19961018.193100.7503.0.kb0rol@juno.com>

Gang,

I have 150 feet of AntennaWest QuietFlex antenna wire (nice wire). I want your suggestions as to what to use this for - di-pole, long wire, zepp... What and why. I want it for camping (car), easy hikes, bike rides what ever. Easy to put up and use. Multi band? What.

I'm depending on you guys to give me the ?best? ideas.

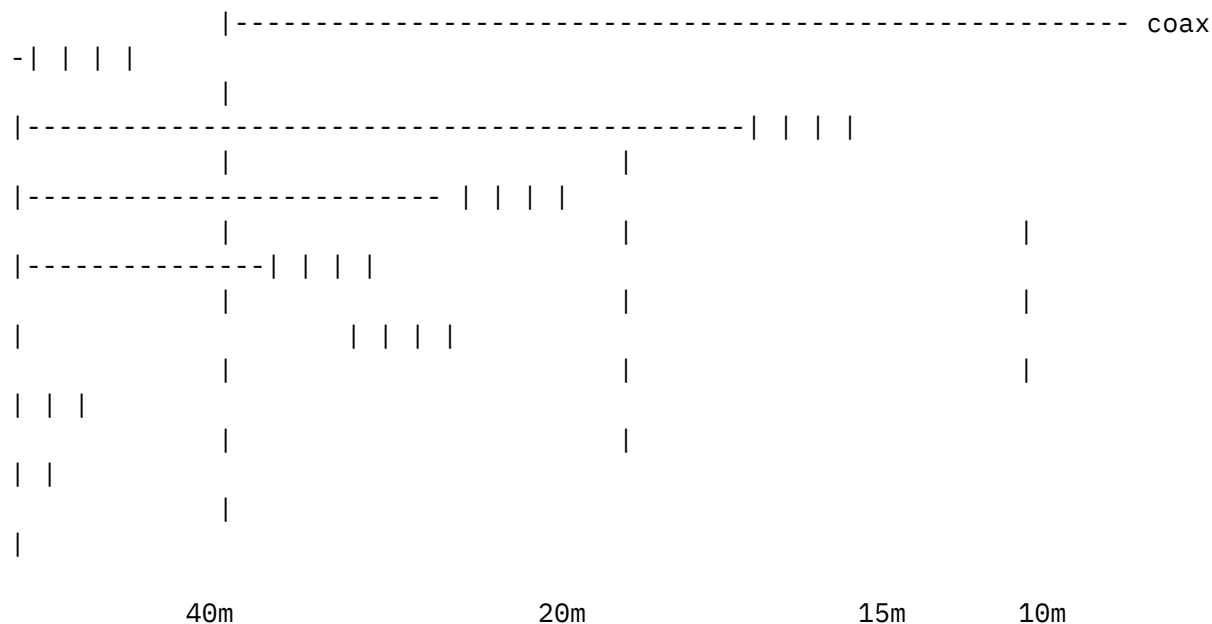
Thanks

Brad Mugleston - KB0ROL
Colorado QRP Club # 170, QRP-L #316, ARRL
QTH - Aurora, CO - DM79oq
KB0ROL@JUNO.COM
BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: bkmak@airmail.net (Bob Kmak)
Subject: [2244] Nested Halfsquares
Message-ID: <m0vEFLM-000F48C@mail.airmail.net>

Gang,

I'm planning to put up nested halfsquares for 4 bands -- 40m,20m,15m,10m -- and was wondering if anyone on the list had ever attempted anything so foolish before :-). They will be fed with a single coax at one corner, and I plan to use insulators to keep the vertical wires from tangling up with each other on the coax fed end:



Any ideas or suggestions will be appreciated.

73,

Bob KC5RAS

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: kf2ph@juno.com (Nick Franco)
Subject: [2222] NHTF and Coming FoxHunt
Message-ID: <19961018.005902.6398.1.kf2ph@juno.com>

Well this week was a total bust. Last week at least I heard the Fox and couldn't work him. This week nothing - I never heard any of the 4 Foxes. I did hear someone work Tom - N9DD, but that was it. I'm starting to panic here.

This coming Monday night I am the Fox and I havn't worked a Fox yet this year. I will be running the full 5 watts out on my NW-40 to a Butternut HF6V vertical mounted on my shed with tuned elevated radials. I hear lots of noise :-)

I picked 0200 - 0400 as my operating time to hopefully get the people on the West and Central areas a chance to eat dinner first. For me it's 10:00 - 12:00 at night. During the Foxhunts so far I tried to listen to the propagation. It seems to die after 10:00 here so I hope I didn't kill it for you guys. Maybe I'll get to work the New England crowd. I think they've been feeling neglected lately anyway :-)

See you all on Monday evening

72,
Nick - KF2PH
Lucky QRP-L # 13
Foxes = 0

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Ed Tanton N4XY <n4xy@avana.net>
Subject: [2277] NoGaQRP meeting reminder
Message-ID: <3267C628.4966@avana.net>

I wanted to remind anyone interested that the NoGaQRP group (North Georgia)

will hold its fall meeting at the Morrison's cafeteria in Atlanta at 11 AM on October 19. (THAT IS TOMORROW [SAT] FOLKS!!!) Morrison's is located just south of I-85 on North Druid Hills Road. Please contact Jim Stafford W4Q0 at <w4qo@america.net> or by landline at: (770) 993-9500 for information. Bring a rig, gear, whatever you'd like to share or showoff. There will be doorprizes.
72/73

--

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 Voice/MBX/FAX
189 Pioneer Trail, Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779 NCDXF SEDXC
Life Member: ARRL AMSAT IDRA INDEXA QCWA URL: Coming Soon

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "marcus (m.c.) leatham" <leatham@nortel.ca>
Subject: [2247] OHR-400 Online
Message-ID: <"11718 Fri Oct 18 10:23:16 1996"@bnr.ca>

Group:

I just finished my OHR-400. It took about 5 evenings to build. I aligned it with a Yaesu FT-990, an MFJ tuner/dummy load, and a multimeter. Last night, I heard HJ5YMU coming in loud & clear. I tail-ended his QSO and called him, but he didn't answer. This AM, I called 3 or 4 stations, no answer. I heard Al, N0CI calling CQ QRP and I knew he would answer. My first QSO on the new rig was QRP-QRP! Al is in Pueblo, CO while I am 20 mi. N of Dallas, TX. We both ran 3W, and sigs were 559(Al)/339(Me). We chewed the rag for 1/2 hour until QSB took it down.

Is this fun, or what?

Al said rig sounded good, nice keying. I noticed good stability and tight filtering. It was a little bit tricky to align and get the sidetone, filter, and carrier offset all working together. I'm using a TRAC Message Memory Keyer until I can get the OHR internal keyer. The rig is going to be shown at next month's Nortel Richardson ARC meeting.

See you on the air!

Marcus (KR5N) Leatham.

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: nskousen@scientech.com (Niel Skousen)
Subject: [2295] one ping only
Message-ID: <199610182332.RAA17766@eaglerock.if.scientech.com>

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: DYARNES@aol.com
Subject: [2280] Pacificon
Message-ID: <961018160013_1711749410@emout12.mail.aol.com>

Just arrived at the hotel. The good news is that my computer seems to connect alright through AOL locally. The bad news is that the windows are all bolted shut--so no antennas out the window for me I guess. BOO!

O.K. Chuck--what's the secret?????

Looks like a good showing. Should be fun.

72 es hope to see a bunch of you here.

David W7AQK

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [2251] QRP-L Web Page
Message-ID: <199610181457.HAA29651@dancris.com>

Haven't been able to get to the qrp-1 web page at <http://qrp.cc.nd.edu/qrp-1> for some time. Is there something wrong, or is the server just down?

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [2259] RST revamped to RSK....
Message-ID: <1.5.4.32.19961018160549.00954b2c@freebird>

I was listening around and thinking about some of the stuff that got posted to the list this week and it struck me that I could count the number of times I've heard a signal with bad tone in the last 7 years on the finger of one hand. ;-) It might be more useful to replace RST with RSK and give a Keying report. Since we're all computer-literate these days the K values would be powers of 2 so they could be combined.

For example:

The guy I heard on 40 last Tuesday would have gotten a 5912, while his counterpart in the Novice band the following night would have netted 5924

K = 1 Excellent Keymanship -- a pleasure to hear you
2 Good Keymanship -- we must be using the same program
4 Geeze, I thought you'd never stop sending that string of CQs
8 Keyer needs adjustment -- seems to speed up when your callsign is sent
16 Geeze, I thought you'd never stop sending that string of CYs
32 Either your keyer has been hit by lightning or you're using a bug
64 Thank-you for the H99 report -- back off your speed control
128 Your keyer sends six "R"s everytime it's your turn

Of course, the numbers might start getting big.

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Cecil A Moore <Cecil_A_Moore@ccm.ch.intel.com>
Subject: [2273] SLV comments

Dave, NF0R, says in his writeup that a single wire can replace the twin-lead coil. IMO, it would be an excellent idea to replace the twin-lead coil with #18 solid bare copper wire to increase the 'Q' and decrease losses. Space the turns at least one wire diameter apart.

Also, on 10m-20m, simply attach a jumper from one end of the coil to the other, thus shorting the coil out for the higher bands. I would expect considerable improvement in signal strength and this is an easy measurement to make.

73, Cecil, W6RCA, 00TC (not speaking for my employer)

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: John Dorson K2JHU Real Estate Consultant <jdorson@bbs.mpcs.com>
Subject: [2231] SLV pole
Message-ID: <199610181202.IAA24994@bbs.mpcs.com>

Can anyone tell me the outside diameter of the bottom section of the fishing pole used. It seem that it is a problen getting these so i figure i could use PVC pipe and couple the sections but i am concerned about the bottom section. John Dorson Real Estate Consultant in Brevard County Florida
E-Mail To: jdorson@bbs.mpcs.com

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| Trying for WAS -      AL,AK,AZ,AR,CA,CO,CT,FL,GA,IL,IA,KS,KY,LA,ME,MD,MA|
|                      MI,MN,MT,NH,NJ,NY,NC,ND,OH,OK,OR,PA,RI,TX,VT,VA,WA|
|                      WI                                              |
|-----|
```

K2JHU only QRP... CQC #351, GQRP # 9092,

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2226] Source code for Keyer
Message-ID: <32673a91.pandora@pandora.lugs.org.sg>

Hi Gang,

I have written a program for a keyer on a 87C51 compatible CPU, not as small as the PIC but pretty small nevertheless (40-pin). I suppose if someone wanted the code I can make it available for free ... or, wait till I get my act together and submit it for publication in NorCal's journal, when I get round to it.

73 de 9V1ZV Daniel

--

```
*-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg      |
| 9V1ZV      | danwee@singnet.com.sg              |
| QRP-L #667 | daniel.wee@f516.n600.z6.fidonet.org |
+-----+-----+
```

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: Rogerio Gonzaga <gonzaga@med.up.pt>
Subject: [2225] SP-600
Message-ID: <199610180829.JAA23656@hipocrates.med.up.pt>

Hi, Bill,

I am glad to know that there are still other SP-600 owners who use it! Nice stuff, I got mine as a gift from a surplus military clearance. It is a rack-version, and the front panel is not mint, but indeed it had not been used before and the inside was completely new! Even so, I was given a set of spare tubes!

Good luck with it!

72/73 de Roger, CT1ETT
Rogerio A. F. Gonzaga, MD
Surgical Professor at the Faculdade de Medicina do Porto - Portugal
Ex-Honorary Surgical Registrar at the Hammersmith Hospital - London, UK

Radio Amateur CT1ETT QTH Loc IN51re
G-QRP Club # 8673 ISWL # CT-20734 QRP-L #516

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: svecbrdk@well.com (L.Svec,W.Burdick)
Subject: [2221] SST Progress Report #2: built-in keyer option (the "KC0")
Message-ID: <199610180632.XAA06918@mh1.well.com>

For those interested in upcoming SST kit:

I thought I'd give you a little more detail on the promised SST keyer option, as well as a couple of other SST notes. The SST is so compact that I had to plan ahead for where the keyer, speed control and paddle jack will go.

By the way: I'm doing the KC0 on my own at this point--it isn't clear whether I or NorCal will supply it. Also, it is intended just for the SSTs--it is not a new "product." The KC0 name is just a reminder of its ancestry. More on that in a minute.

Someone mentioned the pending availability of a keyer based on the new PIC 12XXX series 8-pin SOIC microprocessor. For those who don't know, SOIC = small-outline IC = SURFACE MOUNT. Thank you, in advance, for providing the world's smallest keyer, and congratulations for being first to announce a ham product based on the new PIC 12XXX series.

The SST keyer uses the same chip, except it's the through-hole version (i.e., it has 8 leads--same form factor as an NE602AN or LM386N). In my experience SOIC parts are hard to see, much less solder, so I'm glad someone else is doing the dirty work. In fact, I'll bet Jeff Anderson (of 40-9er-in-a-9V-battery-can fame) can't wait to get his hands on one! On the other hand, if consumer electronics conspires to make through-hole parts go away, noone over 25 will be able to build kits anymore. ;(

KC0 Features

Back to the KC0: I'm porting the KC1 code to it, less the frequency counter, which isn't needed on the SST since the dial only covers 20 or 30kHz and it will be calibrated by the user. There's also no message memory, since the PIC 12XXX parts don't have any EEPROM (yet). When they do, probably in 1997, the KC0 will get retrofitted with message memory.

The KC0 includes an input pin that lets you choose between two Iambic keying emulations, just like the KC1: Curtis mode "A" and Super CMOS mode "B". The latter is similar to Curtis mode B except the timing is easier to use (thanks again to Bob Finch for pointing this out!). Ya know, I still think mode B started off as firmware accident, perhaps on a night when the lighting was bad and there was a pet Iguana on the keyboard. :) But then, I learned on an old 8044 with mode "A", so I may be a distant relative of the Iguana. But there it is--mode B if you want it.

The KC0 will come with a VERY small PC board (< 1" square) that has the micro, 1/8" paddle jack, and the speed control (a small pot, not a button). This board will plug right into the SST board using only 3 wires, and it will mount to the rear panel with holes provided. The keyer jack holds it to the panel and the speed pot's shaft acts like a stop to the board from spinning around :)

Other SST News

I'm getting closer to nailing down the custom enclosure size, for those who want one. It will be 2.5" wide and 4.5" deep, and just about 1.3" tall. The 9V lithium battery fits inside, and uses 9V battery clips on the PC board itself--no more floppy 9V battery connector with wires! In fact, except for the pots and some happy electrons, the SST is a no-moving parts radio :)

Note on the SST's audio output: it WILL drive a speaker, unlike the 40-9er, although I'll still recommend headphones for minimum distortion.

73,
Wayne
N6KR

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: rhight@primenet.com (Roger Hightower)
Subject: [2219] St. Louis Vertical
Message-ID: <199610180547.WAA08242@primenet.com>

The SLV is completed and tested. It works fine, but I made one mod that might give it a little more lifespan. Instead of the 300 ohm in-line connector, I used the Molded Nylon Connector Pair (Part #274-222) to connect the radiator and coil. The crimp tabs on this connector allow the pins to be crimped firmly to the insulation of the twin-lead, giving a bit more mechanical strength.

First tried the antenna with RS stranded speaker wire for the feedline. Had a terrible time, and couldn't get the SWR down to a reasonable level on any band but 20M. Then I used the RS twin-lead, and it loaded on all bands at 1.2:1 or less.

For the spike, I sawed the head off a large "nail-type" tent stake, drilled a matching hole into the broomstick piece and tapped the spike into it. Nice and solid, and easy to stick in the ground. You can even pound on the wood to drive it in harder soil.

I built four radials, since I had the material on hand. For storage, they all coil up nicely and fit in a large ziplock bag. I did not make the radial ring. I just clip one to the other with the alligator clips in a square configuration, then clip one side of the feedline to the last alligator clip. Then the spike can be driven through the center of the square and the whole thing is fairly well anchored.

I'm watching the other postings with interest. There's plenty of room to play with this thing and make it better. A very nice project.

Thanks to Dave, NF0R for the design and NorCal for publishing it in QRPP.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Floyd Soo, KF8AT" <hires@rust.net>
Subject: [2216] TOP 10 AGAIN!
Message-ID: <326731A7.3E17@rust.net>

Sorry gang, but I HAVE to do this! USECA DID IT AGAIN! 4th Place Overall in the 1996 Field Day! Why is this significant? As some of you know, USECA has placed 8th Overall in Field Day in 1994 and 1995. After the 1995 FD, we asked ourselves "How are we gonna top this?" And we came up with "Let's do it with one hand tied behind our back next year!" "How?' came the question. "Let's run a 16A QRP-battery Field Day!" "You've got to be kidding!" "No, really! It will be fun!" "For who?"...(and on it went!)

Well, it's history now! We placed 4th overall running 16A QRP-battery! YEEEESSSSS!!!!

Please note the smiling faces on the upper left corner of page 20 in the Nov QST, as well as the scores on page 36!

Thanks to all for the support and suggestions from this group!

I LOVE YOU, MAN!!!!

72,
Floyd Soo, KF8AT
President, USECA

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Sterling <slombard@primenet.com>
Subject: [2293] Vfo design.
Message-ID: <Pine.BSI.3.95.961018152259.450J-100000@usr07.primenet.com>

I'm looking to convert my rockbound 30m xmitter to one with a vfo. Is there any books on designing vfo's? Can anyone recomend any sources that teach you how to do this technique?

-Sterling W. Lombard (KB7JTZ)
<http://www.primenet.com/~slombard>

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [2269] VLF Converter Pictures on the WWW
Message-ID: <v03007806ae8d64202723@[132.235.72.11]>

Gang,

I've posted a few jpegs of my HB VLF Converter at:

<http://ouvaxa.cats.ohiou.edu/~weinfurtner/vlfc11.jpeg> 30K

<http://ouvaxa.cats.ohiou.edu/~weinfurtner/vlfc12.jpeg> 30k

<http://ouvaxa.cats.ohiou.edu/~weinfurtner/vlfc.jpeg> 130k

Please feel free to take a look...the images were video taped via a VHF camera and then digitized on a Mac Quadra 8500. They are pretty rough looking right now, it is not the equipments fault... it is the operators fault. This is the first try. The equipment is capable of MUCH better quality. I'll get this down pat, so that the images are clearer and only about 70k or so. But, it sure beats having to get film developed, etc. I'll try 8mm camera next and then S-VHS and see how that works.

Let me know what you think.

Have a nice weekend all!

NS80

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: bruce muscolino <w6toy@pop.erols.com>
Subject: [2298] What's 2.5 by 3 inches?
Message-ID: <199610190152.VAA11403@smtp2.erols.com>

Hey gang,

What's 2.5 by 3 by 1/2 inch?

Hints:

1. It includes a fully tunable superhet receiver.
2. It includes a ceramic filter in the IF.
3. It includes a 3 watt transmitter.

4. It will work from 9 volts or 12 volts.
5. It is available NOW.
6. It is available on 30 or 40 meters.
7. It comes with a case.
8. It's not by NORCAL.

Answer:

The EMERGENCEIVER by MXM. Those of you who subscribed to HAMBREW will remember it as Bruce Williams last construction project for that magazine. He and George were originally going to kit it together. Bruce has kitted it himself and you can get it from MXM NOW. Only \$49.95. Call/write/wire MXM at:

MXM Industries
Route 1 Box 156c
Smithville, TX 78957
(512) 237-3906

Enjoy.

Bruce -- W6TOY/3
Still Qrp, Really! (c)
--
Bruce -- W6TOY/3
QRP, Really! (c)

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: PDouglas12@aol.com
Subject: [2264] White Mountain 75 SSB rig
Message-ID: <961018130044_1347053865@emout06.mail.aol.com>

Gang,

Ok, I have opened the package and removed only the instructions. They are in the office for copying. Now before I get flamed about copyright violations, this is what is called fair use. I am copying the manual for my own use, and the instructions themselves suggest that this is an appropriate thing to do, as building requires marking up the manual. Why mess up the original?

The booklet is quite professional and clear. Some things to keep in mind:
The board kit alone does not come with the 100k ten turn pot needed for tuning--this is part of the optional case kit. You also need a modern Yaesu/Icom style speaker mike to operate this rig, as the PTT is through the mike audio line. Also, I am already planning to put a DPDT switch in the rig

to allow for switching receive audio to an internal speaker.

Now, Small Wonder Labs' case kit includes a freq counter with morse (only) readout. I want to use a KC2 with visual readout instead, if possible. The KC2 specified working range is up to 6.4 mHz, and the vfo in the White Mountain 75 is around 6 mHz--should work.

So I am not going with the case kit. On the other hand I am adding considerable cost to the project by adding the KC2. Well, I don't build rigs to put them on a shelf. I plan to use it and the freq readout, is, in my opinion a necessity with a ten turn pot. Else, how will I know where I am tuned?

I will keep you posted.

72, Preston WJ2V

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Floyd Soo, KF8AT" <hires@rust.net>
Subject: [2212] [Fwd: Female qrpers?]
Message-ID: <32672F39.7E0@rust.net>

This is a multi-part message in MIME format.

-----4CFF229628CB
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>
> Joe, KC7NEV:
>
> you said:
> >Then again I'm
> >not sure I've ever met an active female ham in the four
> >years I've been licensed.

The Utica Shelby Emergency Communications Assn has over 200 members on it's roster. We are the largest, most active and most social club in the Metro Detroit area. Of the 200 members, more than a third are women. Most are active in the hobby, some even run QRP! They encompass every level of license class, operate CW, as well as phone, run packet, etc, etc. Take a look at the upper left hand corner of page 20 in the Nov QST, the pretty blonde is our VP, at the helm of the 15M CW station! I'm having fun! Are you?

73,
Floyd, KF8AT

-----4CFF229628CB
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Received: from fidoi.CC.Lehigh.EDU (fidoi.CC.Lehigh.EDU [128.180.1.4])
by Fe3.rust.net (8.8.0/8.8.0) with ESMTP id PAA07758
for <hires@rust.net>; Thu, 17 Oct 1996 15:52:31 -0400 (EDT)
Received: from Lehigh.EDU ([127.0.0.1]) by fidoi.cc.lehigh.edu with SMTP id
<35410-42421>; Thu, 17 Oct 1996 15:52:38 -0400
Received: from nss2.CC.Lehigh.EDU ([128.180.1.26]) by fidoi.cc.lehigh.edu with
ESMTP id <35358-42421>; Thu, 17 Oct 1996 15:51:57 -0400
Received: from audumla.students.wisc.edu (students.wisc.edu [144.92.104.66]) by
nss2.CC.Lehigh.EDU (8.8.0/8.8.0) with SMTP id PAA100743 for <qrp-l@Lehigh.EDU>;
Thu, 17 Oct 1996 15:51:53 -0400
Received: from [144.92.104.140] by audumla.students.wisc.edu;
id OAA16186; 8.6.9W/42; Thu, 17 Oct 1996 14:51:44 -0500
Message-Id: <v02110102ae8bf0fb92d4@[144.92.104.140]>
From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: [2305] Re: 160 Meter Beacon This Weekend!
Message-ID: <Pine.GS0.3.93.961018165144.14474D-100000@uhunix3>

On Fri, 18 Oct 1996 Kirkekirk@aol.com wrote:

> I have now on a 160m attended beacon.
> Rig QRP Plus
> Freq 1.824
> Time 8PM est till ?
> Day Friday
> Ant 160m Loop horizontal at 25 feet
> Power .25 watts
> QTH Canton, Ohio also near the Erie Canal
> Kirk

I've been taking the utmost care to determine the proper freq'y for a
perminant Hawaii 160m beacon, for it's very important not to accidently
place one in an established window. I'm currently working with some folks
from the 160m email list to see if such a beacon from Hawaii will prove
useful or just be considered QRM. I still have to approach the IARU
beacon coordinators for Regions II and III for their recommendations, too.

I suggest anyone considering placing a beacon on the air take great pains
to make certain you will not cause QRM to anyone anywhere, and insure
your beacon will serve a useful purpose.

Jeff KH2PZ (possibly operating KH2PZ/B on 1998.5 from a 1/4 wave vertical)

P.S. Remember, beacons operating below 28 MHz must be attended.

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Patrick Taber <ptaber@logiccraft.com>
Subject: [2234] Re: 8044ABM Burp Fix THANKS
Message-ID: <1.5.4.32.19961018124358.00949e34@freebird>

>
>The time line of events is really what is of interest.
>
>
>DISCRETE Logic IAMBIC (which includes dit/dah memory)
>Curtis Mode A (no dit dah memory)
>Curtis Mode B (which includes dit/dah memory)
>

What you're describing is not modes "A" and "B." Mode only comes into play during squeeze operation. Mode "B" is simply that after releasing a squeeze, the keyer sends *one more* element. So if you let go of a squeeze on a "dah" the keyer completes with "dah dit." If you let go on a dit, the keyer completes with "di dah". In mode "A" if you let go on a "dah" the keyer finishes the "dah" and stops.

Both "A" and "B" mode in a Curtis chip have element memory. That is, if I start a dah, release the dah paddle and tap the dit paddle while the dah is in progress, the keyer will send "dah dit" -- it doesn't have anything to do with mode.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2289] Re: ARCI Contest Logging SW
Message-ID: <2.2.32.19961018210741.00adca74@nfld.com>

Allen,

Pick up "QRP Companion" over on the New Jersey QRP Web Page
<http://www.ges.com/~marmor/>

Also see a writup on the software in the latest issue of the QRP ARCI QRP Quarterly.

Good luck 73/72 Bob V01DRB/WA6ERB

At 15:51 10/17/96 -0500, you wrote:

>Does anyone know of a logging program (shareware if available) that will
>handle the QRP ARCI contests?

>

>72 de Allen, K9DZE

>ajones@adsnet.com

>

>

>

```
-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
| Compuserve:   70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: "Robert J. Gobrick" <rgobrick@nfld.com>

Subject: [2290] Re: ARCI Fall QSO Party

Message-ID: <2.2.32.19961018210739.00ad9938@nfld.com>

Cam and Contest Gang,

Well now that everyone has been "foxed up" the last few weeks now's the time to test your qrp operating skills over a "sustained" period of time. One of the "biggies" is on this weekend - the QRP Amateur Radio Club International Fall QSO Party. Oct 19 1200Z to Oct 20 2400Z. Look for all the "foxes" at the usual qrp watering holes.

And unlike N4BP's prize winning contest trip to Bermuda - I'll go out of my way to offer the winner of this great annual contest a free pint of Guinness at the local downtown St. John's, Newfoundland pub. (Sorry plane fare and second round of suds not included).

So plan on swinging those St. Louis Verticals up to the far Northeast of North America for an easy multiplier.

Cheers Bob V01DRB/WA6ERB

PS: If you need an excuse to enter then all I can say is you just have to

win one of the beauuuutiful certificates that Steve N2MNN and Cam N6GA award to the state/province winners.

PPS: Pacificon entries welcome - too bad the Texans can't count this event for Fox World Series points - I thought that was the reason they sent Chuck out to Pacificon - to mesmerize the Californians with the Texas silver tongue and keeping them away from their Sierras and Norcal 40's during the contest...

At 13:13 10/17/96 -0700, you wrote:

>Gang -

>Just to confirm two mislaid rules -

- > 1) Work a maximum of 24 of the 36 hours, and
- > 2) CW only. Phone contest comes along in January.

>Good chance to work N4BP on Bermuda.

>See You There --

>Cam N6GA

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-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com |
| Compuserve: 70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: tony@wilkes.ak.planet.co.nz (Tony Wilkes)

Subject: [2223] Re: Coax as balanced feeder?

Message-ID: <672@wilkes.ak.planet.co.nz>

Hi

I have an article on this from the NZART Break-In magazine for Sept96 and was thinking of using round my house to overcome the problem of clearance of open wire feeders.

The W4HDX Multiband Trapless Dipole Band	Length of each leg
10 - 160	108 foot
10 - 80	54
10 - 40	27
10 - 20	13.5

Feeder is RG8U or RG58U 20% longer than a quarter wave of the

lowest desired frequency.

Connect both outers together top and bottom - do not connect to anything else.

The two centre cores form the two feed lines. Both feed lines must be exactly the same length. The actual impedance of the coax cables does not matter. Select cable for insulation at high power (the article says) The article was first in 73 Mag in Feb 1984.

regards

Tony

Tony Wilkes --- Whangaparaoa, on the North Island, New Zealand
Royal Forest & Bird Croquet
ZL3SLH & G3SLH > QRP-L #717 QRA >RF73JF

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2227] Re: Coax as balanced feeder?
Message-ID: <Pine.SOL.3.94.961018070357.12615E-100000@utkux4.utcc.utk.edu>

As long as the braids are not grounded, they will form what amounts to a capacitor plate between the two center conductors, reducing the capacitance between the fed wires, but allowing a balance to be maintained.

My concern is the requirement for high-voltage cable, which generally means expensive teflon (RG-142) or heavy (RG213 or better) cable times 2. That is a lot of weight for a system to bear compared to parallel feeders of air or vinyl construction. And a lot of expense.

I sure would like to see some loss measurements before investing in this method of feed.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [2239] Re: Coax as balanced feeder?

Message-ID: <32678C4B.3B22@cyberhighway.net>

Tony Wilkes wrote:

>
> Hi
> I have an article on this from the NZART Break-In magazine for
> Sept96 and was thinking of using round my house to overcome the
> problem of clearance of open wire feeders.
> The W4HDX Multiband
> Trapless Dipole Band Length of each leg
> 10 - 160 108 foot
> 10 - 80 54
> 10 - 40 27
> 10 - 20 13.5
>
> Feeder is RG8U or RG58U 20% longer than a quarter wave of the
> lowest desired frequency.
> Connect both outers together top and bottom - do not connect to
> anything else.
> The two centre cores form the two feed lines. Both feed lines must
> be exactly the same length. The actual impedance of the coax
> cables does not matter. Select cable for insulation at high power (
> the article says) The article was first in 73 Mag in Feb 1984.
> regards
> Tony
>
> Tony Wilkes --- Whangaparaoa, on the North Island, New Zealand
> Royal Forest & Bird Croquet
> ZL3SLH & G3SLH > QRP-L #717 QRA >RF73JF

Thanks Tony,

The article in the '84 73 mag was the first place I saw it. I know the
purists might not like the loss of using coax, but I haven't found and
test figures on it either.

Greg

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: Greg Newberry <newberry@cyberhighway.net>

Subject: [2241] Re: Coax as balanced feeder?

Message-ID: <32678D21.1CAC@cyberhighway.net>

AE0Q / V31RY wrote:

>

> At 21:45 17-10-96 -0700, you wrote:

> >Hi,

> >

> >I want to put up an antenna using balanced feeders but getting them in

> >the house isn't an options. Metal roof, metal siding, patio's, etc. A

> >few years back I remember an article using 2 equal runs of very low loss

> >coax to act as a balanced feed system for an antenna.

> >

> >What I'd like to know is:

> > Has anyone done this?

> > What would be the best coax?

> > How would you handle the braid? Tie together at each end and ground the

> >transmitter end?

> > What would be the impedance of something like this?

> > Would the spacing of the coax pair even be an issue?

> >

> >If I used about a 30 ft run I could get it into the clear for connection

> >to real ladder line. I know the losses are there, but with a high grade

> >of coax and a short run would this have acceptable losses? I don't want

> >to loose much running QRP.

> >

> >Thanks

> >-

> > Greg Newberry - WB7DUO QRP-L #760

> >

> > Hi Greg.. How about a 'Remote Balun' that the Radio Works sells?? I use

> > one of their 1:1 baluns that way, a short piece of coax, and then it

> > connects to the ladderline.. Normally, they sell a 4:1 balun for that, but

> > mine needed a 1:1 for reasons I won't go into here..

> >

> > Anyway, The Radio Works advertises in most of the ham magazines, and their

> > baluns and antennas are well built.. I'll be using one of their Carolina

> > Windom antennas in the ARCI contest from a hill in Wyoming this weekend..

> > brrrrr....

> >

> > 73 -- Glenn

> > -----

> > Duct Tape is like the Force: It has a light side, and a dark side,

> > and it holds the Universe together.

> >

> > AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK

> > v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

> > Glenn,

I've seen this advertized in their catalog. What is your overall impression? Does it seem suitable for home, constant QRP use? How long is your run of coax to the balun, and what type coax did you use?

Thanks

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Tim Richardson <tim@america.net>
Subject: [2255] Re: Coax as balanced feeder?
Message-ID: <2.2.32.19961018152619.0070ccf8@america.net>

For several years I used a dipole center fed with ladder line. The 60 feet or so of ladder line connected to a 4:1 balun which was connected to about 25 feet of high quality 9913 coax for the run to the antenna tuner in the shack. I ran 100 watts 80, 40, 15 and 10 meters with this arrangement and had no problems at all.

Tim Richardson WB4HZT

At 09:45 PM 10/17/96 -0700, you wrote:

>Hi,

>

>I want to put up an antenna using balanced feeders but getting them in
>the house isn't an options. Metal roof, metal siding, patio's, etc. A
>few years back I remember an article using 2 equal runs of very low loss
>coax to act as a balanced feed system for an antenna.

>

>What I'd like to know is:

> Has anyone done this?

> What would be the best coax?

> How would you handle the braid? Tie together at each end and ground the
>transmitter end?

> What would be the impedance of something like this?

> Would the spacing of the coax pair even be an issue?

>

>If I used about a 30 ft run I could get it into the clear for connection
>to real ladder line. I know the losses are there, but with a high grade
>of coax and a short run would this have acceptable losses? I don't want
>to loose much running QRP.

>

>Thanks

>-

> Greg Newberry - WB7DUO QRP-L #760
> newberry@cyberhighway.net
> newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

>
>
>

Tim Richardson, WB4HZT, Acworth, GA <tim@america.net>

"Those who cannot remember the past are condemned to relive it."-Santayana

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: AE0Q / V31RY <v31ry@ix.netcom.com>

Subject: [2257] Re: Coax as balanced feeder?

Message-ID: <2.2.16.19961018094132.28ff2f74@popd.ix.netcom.com>

>I want to put up an antenna using balanced feeders but getting them in
>>the house isn't an options. Metal roof, metal siding, patio's, etc. A
>>few years back I remember an article using 2 equal runs of very low loss
>>coax to act as a balanced feed system for an antenna.

>> Greg Newberry - WB7DUO QRP-L #760

>

>

> Hi Greg.. How about a 'Remote Balun' that the Radio Works sells?? I use
> one of their 1:1 baluns that way, a short piece of coax, and then it
> connects to the ladderline.. Normally, they sell a 4:1 balun for that, but
> mine needed a 1:1 for reasons I won't go into here..

>

> 73 -- Glenn AE0Q / V31RY

Glenn,

I've seen this advertized in their catalog. What is your overall
impression? Does it seem suitable for home, constant QRP use?

How long is your run of coax to the balun, and what type coax did you
use?

Thanks

--

Greg Newberry - WB7DUO QRP-L #760

Greg,

The Radio Works baluns are not small, and should work forever at QRP
levels.. They come with a bit of coax-seal sticky stuff to weather-proof the
connections.

I'm using the 1:1 because my attic antenna is short on 80m, and shows a
low impedance on that band. The built-in 4:1 balun in the tuner was just

making things worse.. My coax is only 2ft long, and is RG-8/U. The shortest and heaviest-duty piece you can use is the best, as that is where most of the losses will be if it's a multi-band antenna being used on bands where it isn't resonant.

The decision to use 4:1 or 1:1 is harder.. The built-in 4:1 baluns in modern transmatches are a compromise; sometimes the ratio is too high, sometimes it's too low, if you're using it to feed a non-resonant, multi band antenna. I couldn't get a good match with the internal 4:1 on my antenna on the lower bands. With the antenna on the internal 4:1, I used an antenna analyzer to find out what the impedance was on the problem bands. It was outside the range of the transmatch (low), so I tried the 1:1 and it works on all bands now.

Hope that helps.. 73 -- Glenn

Duct Tape is like the Force: It has a light side, and a dark side,
and it holds the Universe together.

AE0Q / V31RY ex: GM5BKC, ZB2WZ, SV0WY, WA0VPK
v31ry@ix.netcom.com -- ARRL LM, QCWA LM, NCVA --

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: James Bell <jim.bell@canada.cdev.com>
Subject: [2240] RE: Coax as balanced feeders
Message-ID: <199610181257.IAA227265@nss2.CC.Lehigh.EDU>

I have always understood that the coax braids had to be grounded.

The braid shields the vertical hanging center conductors from noise which tends to be vertically polarized.

I am feeding a 400 ft horizontal loop with twin coax (RG/59 LAN CABLE) and I convert thru a balun to single feed into the TX. The loop picks up a lot of static noise anyway. As the loop is non-resonant I still use a tuner.

I noted that, in my location, when I was feeding a dipole with this feed system, there wasn't any appreciable drop in noise level when grounding or ungrounding the braid. I would suspect that the proximity of the two feedlines to each other balanced out any apparent difference in noise level. If there was a change I couldn't hear it. I didn't try to measure anything.

L.B.'s comment that the braid acts as a capacitor between the lines and couples them closer together is very thought provoking.

Jim VE3DDY (BEST BENT WIRE) (try it in CW)

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: nf0r@slacc.com
Subject: [2291] Re: Coax As Balanced Feedline
Message-ID: <9610181650.D8760Gf@slacc.com>

I have used RG-58 and RG-6 to build shielded balanced feedlines for eight years. Works just fine for me in both indoor and out door applications.

Grounding the shields makes no appreciable difference in my experience. Of the two mentioned, quad-shielded RG-6 seems to be the quietest. I asked for cable ends from the local CATV operator and as given about 150'. Nice deal!

I have converted to twinax. It is small and easier to handle than two lines, for my installation anyway. Losses in twinax do not seem to be any worse or better than the RG-6 or RG-58.

My horde of twinax came courtesy of a ham friend who removed it from his workplace while the computer system was being upgraded. I now keep 28' and 55' runs of twinax for portable use. The latter has been installed at a Field Day site for the last two years and performed well.

If you have access to it twinax is the best alternative. Alternatively, go for the RG-6 and then the RG-58 (or RG-59). All IMHO, of course!

73 de Dave, NF0R nf0r@slacc.com

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Greg Newberry <newberry@cyberhighway.net>
Subject: [2242] Re: Coax Feed
Message-ID: <32679107.3EC9@cyberhighway.net>

James Bell wrote:

>

> Greg,

> Im using exactly what you describe.

> I'm using LAN cable which is twin RG59 coax

> with the braid shorted at both ends and the TX end grounded.

> At the bottom end I'm going thru a 4:1 balun to a single coax.

> Because my antenna is a 400 ft loop I still use a tuner.
> I dont know what the Z is of the twin.
> This feed system is NOT completely silent as the 73 Magazine
> article described it but then I'm not feeding a dipole and the
> loop picks up a lot of static.
> 72 JIM VE3DDY

Jim,

Sounds interesting. Are you using two pieces of rg59? Or is it in a single case? I was thinking of using Twinax(sp) as a feed line. We used this at work in some older system. Twin lead coax in a single line. I've never even looked at the specs on it, losses, impedance etc. Have you?
Thanks

--

Greg Newberry - WB7DUO QRP-L #760
newberry@cyberhighway.net
newberrg{dhwtowers/regional/newberrg}@dhw.state.id.us

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "j.w. thornton" <dub@oklahoma.net>
Subject: [2292] Re: Corsair 1 vs.Omni D vs. Corsair 11
Message-ID: <199610182223.RAA02069@dns.okc>

At 06:22 PM 10/16/96 +0500, you wrote:

>All,
> Please advise: I am considering the purchase of a TenTec Corsair 1. I
>have the option of purchasing a TenTec Omni D. What should I consider in
>making my decision. What are your experiences and what do you know of
>these rigs as to which is the better. Receiver performance is always my
>priority. Would I be best served in saving my money and buying a Corsair
>11? My funds are and will be somewhat limited for a while. What should I
>be looking for in used rigs in terms of problems etc? tn timer

Personal preferences! That is what you asked for???

1. Corsair II
2. Corsair I
3. Omni D series C
4. Omni D series B
5. Omni D series A.

All are great rigs, especially for the CW enthusiast. All have the excellent Ten Tec QSK, all have excellent filter OPTIONS. (check to see for sure what filters are included). All are PTO rigs, and WILL, sooner or later suffer the PTO SHIFT SYNDROME. (small shifts in frequency). Ten Tec sells a kit to overhaul the PTO for about \$20.00, or they will do the job.

I find the frequency stability to be quite adequate for my type of operation (CW), however, PTO rigs do normally drift a bit. The Corsair II is one of the quietest receivers I have had the pleasure of using, & is noted as one of the quietest available today.

Be advised that OMNI D simply means an Omni series radio that has digital readout, while OMNI A means analog dial. The Omni series were produced in 3 series, the series A, series B, and series C. Series A and B were produced in both OMNI A (analog), and OMNI D (digital), while the series C was produced as OMNI D (digital) only. Very confusing to a lot of folks, but something one needs to be aware of, as there is quite a difference in the going price of the OMNI D series A, and the OMNI D series C.

My one experience of owning the Omni is an OMNI D series A, that was factory upgraded to the series B. This entailed replacing a squelch control with a notch filter, plus different crystal filter options. A very nice rig, but not in the same class as the Corsair II, which I also own. Does not cost the same either.

J. W. (Dub) Thornton WA5YFY
Minco, Ok.

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: emaaro@pacbell.net
Subject: [2258] Re: CW question
Message-ID: <32679A36.2A41@pacbell.net>

Bruce Robertson wrote:

>
> On Mon, 14 Oct 1996, Patrick Taber wrote:
>
> > Well, the 'R' (radix) is used in numbers, but in a number the 'R' is
> > unambiguous. In an address, it would be very confusing -- did he send
> > "car.ot", "ca.rot" or "carrot"? In text, the tradition is send periods.
> >
>
> A similar problem can be found in the advice that the @ be transcribed as
> 'at' .- -. br@gnatfly.com is ambiguous (possibly decoded as
> bratgn@fly.com and v.v.) The person who suggested that we need an @ morse
> transcription is right, that is if we want to send email stuff over the
> air (especially by automatic means).
>
> 72, VE3uw1
>

> Bruce G. Robertson Dept. of Classics, U. of T.

This type of confusion is caused by sloppy cw sending with improper spacing between the characters; just use a "dah" spacing before and after the @ symbol making @ a word. Makeing a "hard copy" of the message and reviewing your copy will take out any confusion in "carrot."

72s/73s, emaaro

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Greg Weinfurtner <weinfurtner@ouvaxa.cats.ohiou.edu>
Subject: [2235] Re: Diode mixer question...
Message-ID: <v03007804ae8d1accf095@[132.235.72.11]>

Gang & Al,

You asked for the scoop on the VLF converter that I built. The circuit diagram and description is given at:

<http://users.aol.com/part15/lfconvtr.html>

I opted for the diode ring mixer as used in the June 1977 QST article that this new article is loosely based on. I didn't have an SLB-3 mixer that the above article has...and I couldn't wait for the mail delivery!

I found torroids in junked computer power supplys that were great for the 600khz filter that is in the above article. They were all Yellow except one side was white. I set up just the 600khz LPF and terminated it with 50 ohm resistors. Feeding it with a sig gen and monitoring the output with a scope I found that the band pass was just what the book said it should be with less than a db or so of insersion loss. It seems to completely stop any AM interference.

The DBM transformers were the specified FT50-43, as per the QST June '77 article. The windings were 27 turns trifilar wound on the core...just fit without overlap.

I changed my IF frequency to 14 mhz (Instead of 4 mhz) because that was the only crystal that I had that would make the frequency readout correct on my HF receiver. I changed the associated components that went along with the IF change.

Early tests show that it is performing great, I was copying the beacons on just the mixer stage alone! (well, with the oscillator stage too...)

72 de

Greg Weinfurtner AEE BSS
Electronic Design Splst
Ohio University Athens
GO BOBCATS!

weinfurtner@ouvaxa.cats.ohiou.edu
<http://ouvaxa.cats.ohiou.edu/~weinfurtner>

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: nskouen@scientechn.com (Niel Skousen)
Subject: [2263] Re: DSP-40
Message-ID: <v02140b02ae8d681e7271@[198.60.91.132]>

>I just returned from my local Radio Shack with my new dsp-40.
>
>"Happy Rails" to you.....Tom WB5QYT qrp-1 640
>

A while back there was the beginnings of a thread about code modifications to the DSP-40... Has there been any further discussion/progress off-line ??

72

Niel Skousen
nskouen@scientechn.com

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: plquick@facstaff.wisc.edu (Paulette Quick, WB9VHF)
Subject: Female qrpers?

Joe, KC7NEV:

you said:

>Then again I'm
>not sure I've ever met an active female ham in the four
>years I've been licensed.

Well! then you've never been to the Four Lakes Amateur Radio Club in Madison, Wisconsin, where there are lots of female hams, some XYLs to OMs and others simply single ladies like myself.

As far as more women engineers/programmers resulting in more hams....I've met quite a few *men* who would make great radio people but who direct their technical interests in directions other than rf generation and detection.

Then there's our own Laura Halliday, VE7LDH, who contributes many erudite and interesting stories of her radio construction adventures (she's been working with surface mount technology lately). She's an engineer who really understands electronics and can communicate the process well.

The list hasn't heard from me lately due to the usual business. I am working a full time 40/hr/wk job in addition to a half-time job of up to 18/hr/wk plus taking a four credit Intermediate Algebra class. And my landlord is selling her house so my antenna is down :(and I've spent my free time sorting and packing (I move on Dec. 1 to a place by myself where I can have antennas and BIRDS) and as I speak I am single-handedly acting as secretary to the Chief Information Officer (CIO) here at the Division of Information Technology (DoIT) as well as my usual stuff for the Deputy Director and the Strategic Consulting staff (due to family emergencies and illness of other secretaries).

I'm ok (as long as I study for that huge Algebra test on Monday) but actual free time is rare.

I hope to take the math through Calculus and then do something with electrical engineering and/or computers. All the while working as many hours as I can.

It's interesting...when I saw the movie Apollo 13 (with my ham friends, of course) my first thought was "god, how I love this stuff." John Glenn was my childhood hero (and so was Walter Cronkite--I went into Journalism). Years ago I identified with and wanted to be an astronaut.

Now I identify with all the geeks and nerds and techies (words which I now proudly ascribe to myself) at the control consoles in Houston. I looked at the guys (no women at Mission Control, sigh) and thought, hey they all look like my ham friends, cool! That's my crowd now.

I honestly have no idea why EVERYONE isn't a ham. This really is the world's greatest hobby and I keep believing that once we show this to the world, they'll all want to join in. Such is not the case, but non-hams are missing a whole lot of fun in their lives, I'll say. (I do Radio Evangelism whenever I get the chance--ask me sometime about the Altoids tin at the prayer service.)

So Joe, the women hams and the women qrpers, the few the proud, are out here. Come by and meet us sometime. At Dayton perhaps.

72 es 88
Paulette Quick, WB9VHF
Madison WI
plquick@facstaff.wisc.edu
(Break is Over, Now Back To Work)

-----4CFF229628CB--

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: 18-Oct-1996 0840 <randolph@asic.ENET.dec.com>
Subject: [2238] re: Filter: Theory to Practice - Ground Zero
Message-ID: <9610181246.AA00993@us4rmc.pko.dec.com>

> Anyway, with a few trimmers I can vary the passband from a two-hump
> response to a flat response, to a peak response. However, I am not able to
> alter the steepness of the skirt. Which part of the filter design determines
> how sharp this thing can be? I am guessing that this has to do with the Q of

The number of resonators determines the skirt steepness. You usually can't get much change in steepness by playing with the components. If you need very sharp cutoff, you'll probably have to cascade two filters, or add a highpass or lowpass, depending on which side you want sharper.

=====
Tom Randolph N100Q NE-QRP 419 QRP-L 87 ARRL randolph@asic.enet.dec.com
=====

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Kelly Ellison" <kelman@dialnet.net>
Subject: [2281] re: For Sale or Help with HW-9
Message-ID: <199610182024.PAA30159@shell.dialnet.net>

To All who offered to help me with my HW-9, ...I say a big Thanks!

To All who offered to buy my HW-9, ...I say a big Thanks!

The rig has been sold and has a new home. I would liked to take the time to get it going, I think it would have been fun... but at this point in my life - I barely have enough time to get on the air. But once again, thanks to all who offered to help me get it fixed.

Now, anyone know where I can get a cheap Argo 556 or Scout?
I am also interested in a built 40 meter TAC-1 or a ARK-4 (S&S Engineering).

Best Regards,

Kelly Ellison

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: kf2ph@juno.com (Nick Franco)
Subject: [2220] Re: FOX Novice Mortified!
Message-ID: <19961018.005902.6398.0.kf2ph@juno.com>

Barry,

Nice job as Fox. I never even heard you and I listened real hard :-)

I just thought it was great that Tom N9DD (the other Fox) came down and worked you after his shift was over. Now that's Ham Radio at its finest in my book. Great job guys, Tom and Barry.

Nick - KF2PH

Lucky QRP-L # 13
Foxes = 0

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: n3wxi@sgi.net
Subject: [2301] Re: FOX: Snubbed by the furball
Message-ID: <199610190223.WAA10564@orion.bv.sgi.net>

At 10:34 PM 10/16/96 -0700, you wrote:

>
>Greetings All,
>
>So what's worse than struggling for two hours to hear
>the Fox amidst QRN, QRM, static crashes and heavy QSB?
>
>-Joe, KC7NEV, vole@primenet.com, AZ ScQRPions
>
>PS- Hope the rest of you had better luck!
>
>Hi. I'll tell you whats worse! Decided that due to a hard day I
would take a short nap before the foxhunt. Turned on my HW-101 (set
to less than 5W of course) so it would be done drifting, and went to
snooze. Some time later the XYL shakes me awake and says, "Hey,
what's that terrible burning smell coming from your radio room?" Run
to the shack and find smoke and a belly up HW-101. Major bummer.
No more HF rig. When's that SST thingus gonna be available?

Later, (maybe much later)
George N3WXI QRP-L #440

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Dean Marzocca" <n2tnn@ifu.net>
Subject: [2303] Re: FOX: Snubbed by the furball
Message-ID: <199610190304.XAA29570@mail.ifu.net>

George,

You might want to get the local arson squad called in on this one. Sounds
mights suspicious to me. Most rigs don't just burst into flames when you
take a snooze. Mine is left on all the time and no smoke yet. I bet most
all the other ops listening can attest to that. It doesn't just happen,
come on now. Come to your senses and smell the roses. After that little
smelly smoke incident was there a request for "take me out to dinner", or
"can we go shopping now", or maybe "you can get those chores finished now".

Sounds familiar bub???

Out here near the big lake (Atlantic Ocean) I don't take anything too lightly. The xyl doesn't know for sure which rig works. I have a dummy one on the shelf and the coax all looks real. I even have several Altoid tins scattered about one the desk so she can't tell the real from the empty. I even made one of them Tickle Sticks into a Altoid tin. No blinking light and she is afraid to touch any of them. Should have seen her when I asked her to try a mint. Talk about hair flying. I was crying too hard to see through the tears in my eyes.

Now I know you can't stay up all day and all night but be more careful in the future. This can't happen again. Rigs are too valuable. Not only in money but in radio time. You are going to miss how many foxes? ARCI is coming. The Black, what ever that ploe is, can't stand around for weeks waiting (is it widow? Ha!! great name and it fits here:-))

Promise, George, not to let this happen again, OK?

72/73, Dean, NJ, N2TNN, QRP-L # 560
EMPS Q=4 S=3 DX=1

> >
> >Hi. I'll tell you whats worse! Decided that due to a hard day I
> would take a short nap before the foxhunt. Turned on my HW-101 (set
> to less than 5W of course) so it would be done drifting, and went to
> snooze. Some time later the XYL shakes me awake and says, "Hey,
> what's that terrible burning smell coming from your radio room?" Run
> to the shack and find smoke and a belly up HW-101. Major bumner.
> No more HF rig. When's that SST thingus gonna be available?
>
> Later, (maybe much later)
> George N3WXI QRP-L #440
>
>

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [2249] Re: FOX: Why never on 20?
Message-ID: <Pine.SUN.3.90.961018074040.12267A-100000@vortex.sage.dri.edu>

Hi All,

Daniel, you ask a good question!

Foxing was to get activity on 40m. And to get us away from the computers and onto the radios.

But with the digital sigs on 14060, maybe it would be a good idea to have a 20m version of fox night! Show more activity there and get a chance to work some qrp-qrp DX!

Anyone like the idea?

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: bkmak@airmail.net (Bob Kmak)
Subject: [2252] Re: FOX: Why never on 20?
Message-ID: <m0vEGXY-000FLKC@mail.airmail.net>

>But with the digital sigs on 14060, maybe it would be a good
>idea to have a 20m version of fox night! Show more activity
>there and get a chance to work some qrp-qrp DX!
>
>Anyone like the idea?

I like it. Maybe on weekends or early evenings

73,

Bob KC5RAS

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Patrick Taber <ptaber@logicraft.com>
Subject: [2253] Re: FOX: Why never on 20?
Message-ID: <1.5.4.32.19961018152043.009436a4@freebird>

Actually, I thought someone did it on 20 (or was it 80?) last year and got a gentle but firm correction that the Foxhunt is a 40M event. Not to say you couldn't arrange and coordinate at 20M version, but THE Foxhunt is a 40M event and scores, standings etc. are based on 40M results.

I wouldn't underestimate the amount of effort involved in running such an event.

>>>==>PStJTT

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [2256] Re: FOX: Why never on 20?
Message-ID: <199610181526.PAA09806@chuck.dallas.sgi.com>

Pat,

Last year some people tried a 75m SSB foxhunt, but it never was very active. Being on 80m CW this year I can understand why. People think that 40m is noisy haven't been on 80m lately. :-)

There is no rule that says that any member of this group cannot sponsor such an activity on 20m. As you said there is a lot of work behind the scenes. Been there. Done that.

dit dit

: Chuck Adams (K5FO CP-60) WAS 40m/30m/20m=49/49/50
: EMPS QS0s=2 STATES(w/c)=2/0 DX=0
: MO TN

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Gary Surrency <gsurrenc@ix.netcom.com>
Subject: [2217] Re: Fox: XYL's question
Message-ID: <32670B22.16C1@ix.netcom.com>

Joe Gervais wrote:

>

> Mike (K1MG) wrote:

> >

> > My wife asked me a very good question last night: "Are there any vixen in

> > the hunt? If not, why not?"

>

> I'd assume since female engineers/programmers/etc. are

> far more common these days (in the U.S.) than 15 years

> ago, there would be more female hams. Then again I'm

> not sure I've ever met an active female ham in the four

> years I've been licensed.

>

> Are we doomed to be the Fraternal Order of Radio Nerds? :-)

>

Hey! My wife's a ham! She is KC7MML. She even goes with me to hamfests!

She also does Unix, NT, Novell, Win95, etc. She used to do CADD3 3X and 4X ComputerVision too. She studied about a month for her ticket, but I still haven't got her near any Morse yet.

So I guess she's a nerd too. So what?!

I met several female hams at the ARRL SouthWestern Convention this past Saturday. One of them I spoke with had got her Extra in only a year, and her husband was still a no-code Tech! Go figure.

Had a QSO with a YL named Betty in Orlando on 40m the other night. AC4IL was her call.

Ya just gotta look around. They're out there.....

Let's hear it for the women!

73,

..

Gary, AB7MY QRP-L #571 Chandler, AZ (near Phoenix)Grid Square DM43BH

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: [2287] Re: Getting feedlines through window question
Message-ID: <199610182055.PAA13959@Spacestar.Net>

Mike Boice writes:

> With colder wx coming on now, I'll be moving my rig inside the house
from my
> current unheated, uncooled, unventilated shed. Problem: it's a rental
> house & I can't hack a hole in the wall or eaves to run coax & 450 ohm
> window line in. I figured I'd insert a 2-3" wide board in one of the
dining
> room horizontal-sliding windows, sandwiching the board between the
window &
> side frame. Then I'd cut a hole large enough to run 2 or 3 coax lines &
> window line thru. Sealing this hole up from the wind is my big
question.

Get thee to the local Home Supply Store, look in the electric conduit section. You will find nice 90 degree graceful bends of plastic conduit. These will range in ID from about 3/4 inches to several inches, chose one that will handle all your intended cables. Now go to the paint section and get some steel wool. You will also need a good handful of foam rubber, fiberglass insulation, or even dry rags and a strips of foam to seal the edges of your board and the other edge of the window.

Drill your board for a snug fit around the OD and insert the plastic bend so it hangs over the outside window sill near the bottom of the window. Attach the foam strips to the edges of the board. Cut another board so it jams the window shut on your "cable" board and use another foam strip to seal the crack between the fixed and sliding window. You may wish to tape this as well. Use a wide vinyl tape, not duct or masking tape as they will leave a residue after a long period of time. Run the cables. Stuff the foam/insulation/rags in the pipe around the cables on the inside and outside creating an air gap in the plastic bend. On the outside end of the pipe stuff an additional 1" of steel wool. The steel wool is to keep the "little varmints" out, they will eat through foam and insulation. (Yes, they will pass glass! ;-) SORRY!)

I noticed in the message from Bill Myers he writes:

> To help keep the weather out, I put a 90 degree elbow on the outside
> and faced it towards the ground....

I do not recommend this. Most coax cable we use these days has foam insulation. Sharp bends, as might be made in a plumbing elbow, can cause the center conductor to migrate over toward the braid. This can cause an impedance bump or even a short. That is why I recommend the curved plastic pipe. Always use gentle bends when installing any feedline, coax or balanced.

Hope this Helps.

Claton Cadmus |73 de KA0GKC
Application Technologies Inc. |ARRL, QRP-ARCI, NorCal
Ph. (612)926-8886 |ARCC, MNQRP&HB Society
Fax (612)926-8545 |ka0gkc@ka0gkc.ampr.org
E-mail cla@spacestar.net |ka0gkc@wb0gdb.#stp.mn.us

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [2270] Re: Getting feedlines thru window question
Message-ID: <Pine.3.89.9610181332.A4398-01000000@imc220>

On Fri, 18 Oct 1996, Mike Boice wrote:

> window line in. I figured I'd insert a 2-3" wide board in one of the dining
> room horizontal-sliding windows, sandwiching the board between the window &
> side frame. Then I'd cut a hole large enough to run 2 or 3 coax lines &
> window line thru. Sealing this hole up from the wind is my big question.

In a previous house I used some of the 2" thick blue styrofoam used to cover commercial buildings. For those familiar, it's covered with a product called "DriVit". Anyhow, if you don't have connectors on the coax, make the holes a little smaller than the coax and stuff through. This is fairly "self-sealing". Otherwise, use two pieces forced together with a "notch" on one. Tape the seam, seal up the space between the two sashes (the other end of the window) and you're all set. Just don't forget to put a drip loop on the outside or water WILL come in along the coax.

Also make sure you jam the window so it can't be opened any wider or "someone" may follow that wire in the windows walk off with your toys!

72

-- Chris Cartwright N3XRV Gaithersburg, MD | dsc3cjc@imc220.med.navy.mil --
-- EMPS QS0s=0 STATES(w/c)=0/0 DX=0 FOX=0 | QRP-L #655 QRP-ARCI #9271 --

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: ldeering@haven.ios.com (LarryDeering)
Subject: [2271] Re: Getting feedlines thru window question
Message-ID: <199610181806.0AA08555@haven.ios.com>

Mike,

Sometimes a window can be closed on a 450 ohm line without too much damage to the line. Usually I keep a string tied to a nail on the outside window sill, and the other end to my feedlines. I toss the lines out the window when not in use (helps for lightning!). To go on the air, just pull in the line, and close the window on the feeds.

Also, look around, there may be a another path for that coax somewhere. I had a job out of state once, and rented the top floor of a house. I tried an indoor antenna, a 15m dipole as I remember. It was so bad I replaced it with a Cushcraft R4 on a chimney mount. The gable end had an attic vent, and there was a trap door in a closet going to the attic space. Now I had a path for the rg-8! Everything went well until a high wind levered the chimney over! So, I took the ant. down, and picked up the bricks and put them back in place. The landlady never said a word, of course I

never told her!

73,

Larry, wa2yte (soon w2??)

>With colder wx coming on now, I'll be moving my rig inside the house from my
>current unheated, uncooled, unventilated shed. Problem: it's a rental
>house & I can't hack a hole in the wall or eaves to run coax & 450 ohm
>window line in. I figured I'd insert a 2-3" wide board in one of the dining
>room horizontal-sliding windows, sandwiching the board between the window &
>side frame. Then I'd cut a hole large enough to run 2 or 3 coax lines &
>window line thru. Sealing this hole up from the wind is my big question.

>

>I'd thought about cutting a 6" or so piece of bicycle tube & running it
>through the hole, & allowing the cables to run through it. Then I'd run a
>bead of caulk between the tube & wooden board. A cable tie on each end of
>the tube (i.e. one inside, one outside) would cinch everything down fairly
>tight, yet I could still snip the cable tie & insert more/remove cable.

>

>Anyone see any problem with this, or (better yet) have a better solution?

>73,

>mike KD0FX

>Richland WA QRP-L #576 QRP ARCI #9270

>

>

>

>

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: Bill Myers <bmyers@destin.nfds.net>

Subject: [2275] Re: Getting feedlines thru window question

Message-ID: <1.5.4.16.19961018134056.25f7128a@destin.nfds.net>

Hi Mike,

>With colder wx coming on now, I'll be moving my rig inside the
>house from my current unheated, uncooled, unventilated shed.

No FYBO ops all the time, HUH??????

>Problem: it's a rental house & I can't hack a hole in the
>wall or eaves to run coax & 450 ohm window line in. I figured
>I'd insert a 2-3" wide board in one of the dining room horizontal-
>sliding windows, sandwiching the board between the window &

>side frame. Then I'd cut a hole large enough to run 2 or 3 coax
>lines & window line thru. Sealing this hole up from the wind is
>my big question.

Not a problem. I too am renting. I use the spare bedroom for my play room. I put in a 4 inch wide board and "braced" the window shut. I also drilled 6 equidistant<sp> holes into the board large enough to take a 3 - 4 inch piece of pvc pipe (I use 3/4 inch). To help keep the weather out, I put a 90 degree elbow on the outside and faced it towards the ground (no rain/sleet/snow/hail/other stuff gets in). Once I get the wires/coax/grounds where I want them, I use old foam rubber pieces and stuff them in the hole around the wires to seal out the wind. Works like a good qrp rig and goes with me when I move. The landlady was in town a couple of weeks ago and complimented me on this setup as a previous tenant "drilled" holes under a window to put his 11 meter rig up.

>I'd thought about cutting a 6" or so piece of bicycle tube & running it
>through the hole, & allowing the cables to run through it. Then I'd run a
>bead of caulk between the tube & wooden board. A cable tie on each end of
>the tube (i.e. one inside, one outside) would cinch everything down fairly
>tight, yet I could still snip the cable tie & insert more/remove cable.

This would also work, but you might want to try the above as it's easier in the long run, and movable with you.

72/73

--

Bill Myers KK4KF FISTS #2390 QRP-L #755 ARRL
Snail Mail P. O. Box 178
 Shalimar, FL 32579-0178
Grid EM60rk
e-mail <bmyers@destin.nfds.net>
homepage <http://destin.nfds.net/~bmyers/>
CHECK OUT THE FISTS INTERNATIONAL CW CLUB HOMEPAGE
<http://n9nvv.qrp.com/~fists>
 ^^^^^ That's N 9 N V V

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Bill Morris Denton <bdenton@tenet.edu>
Subject: [2282] Re: Getting feedlines thru window question
Message-ID: <Pine.OSF.3.91.961018151338.10114B@francis.tenet.edu>

All this good discussion and complicated answeres. My solution is very simple. Go down to local hardware store and pick up some pipe

insulation. The kind that is split down the middle. Cut a length the width of the window. Clamp the split part to the bottom of the window and slide the window down on the feed line. It makes a nice seal. However I use ladder line and it lays flat. If you used a flat piece of foam material on the sill, it should make a nice tight seal around coax as well. You can use the thumb screw type clamps to lock the window for security. These clamps are made for sliding doors or additional locks on windows. all this cost about 2 bucks and about 5 minutes to install. I works for me.

Bill WA5DWX

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: kd1jv@juno.com (STEVEN WEBER)
Subject: [2260] RE: HB: KEYERS (long)
Message-ID: <19960914.043801.5471.0.KD1JV@juno.com>

Hi All,

Well, just as I thought, the world really DOESN'T need another keyer. Seems there are all ready many very nice keyers avalible. Why reinvent the wheel indeed. If you need a little keyer, just buy one from one of the sources that spoke up here. No need for me to jump in to the fray! I'm not going to do anything better or smaller or more power efficent that what is all ready alavible.

Just for the record, I would have been using the Atmel 89C2051PC-24. This is a very nice CPU if you know 8051 code, as it is 100 % compatible with the 8051, except for the limited number of ports. (only P3 and P1 are avalible) It has 2 K flash ROM memory, 15 I/O ports, a voltage compairitor and the usual bidirectional serial UART and two external interupts. It is in a 20 pin 0.3" spaced dip and can run up to 24 MHz. It can also be obtained in SMT versions.

Keyers are a natruual for anyone wanting to learn assembly language programming. It is a faily straight forward task with specificly defined functions. I think this is why there are so many cpu based keyers out there.

Using a little CPU chip in projects is neat. You can do a lot of things that other wise would not be practical. There are a couple of reasons why source code for most,if not all, of the projects are not published.

One, after the hundreds of hours it took to write and debug the program, the auther is somewhat protective of thier work.

Second, source code listings can run many, many pages. A 4 K program will run 60 pages! It's just not practical to publish the

listing in say a magazine article. The source code by it's self is of no use untill it has been assembled, then it becomes a seemingly endless and meaningless string of hex codes.

Third, the lisiting is not going to mean anything to many people. Those that do understand it usually find its easier just to write a similer program from scratch, rather than spend days tring to figure out someone elses program. Finally, even if you do have the listing, even if its on a floppy and you don't have to type it all in again, you still need a chip programmer for what ever CPU the auther happend to use.

Therefore, it is much easier all around to simply buy the programmed chip from the auther. We know that very few people have the equipment needed to program the CPU we used. If a programmed chip were not made avalible, not many, if any would build the project!

Ah well, enough for now.

73, de KD1JV, Steve

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Bob Hirsch <bobh@p3.net>
Subject: [2300] Re: Inductance calculator
Message-ID: <1.5.4.32.19961019021705.00664e08@p3.net>

At 15:23 10.18.96 -1000, you wrote:

>
>Thought this might be of interest to the homebrewers amongst us.
>Jeff KH2PZ
>
>-----Begin Emil's coil file-----
>I have uploaded on oak.oakland.edu in the directory:
> /pub/hamradio/ham-utils coil200.zip
>COIL version 2.00

The correct directory is /pub/hamradio/dos/ham-utils?

73 de Bob, AA30N in New Hope PA

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Jim Cadorett/US/3Com <Jim_Cadorett@3mail.3Com.COM>
Subject: [2228] Re: JUNO address and qrp-l digest

Message-ID: <9610181121.AA5254@hqsmtp2.ops.3com.com>

This question is directed to those who use JUNO.COM addressing. Are you able to receive qrp-l

digest via your juno.com internet address? When I try to send or receive qrp-l digest files larger than 61k

I get a message back from the JUNO server saying I can't send files larger than 61K. Is there some way to subscribe to qrp-l and receive smaller files?

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: kc5moe@juno.com (John E Hutter)

Subject: [2243] Re: MAGNIFIER LIGHTS

Message-ID: <19961018.083011.9887.1.KC5MOE@juno.com>

I agree. I also have both and the occasions I prefer the magnifier light over the headband mounted magnifier "goggles" are few and far between. Brownells carries them as the OptiVISOR in magnifications from 1.5X to 3.5X for \$29.95 and a swing away OptiLOUPE for \$5.95 that will take them up to 6X. Their phone number is (515) 623-5401. Usual disclaimer, just send them a lot of my other pastime's budget.

72/73 de KC5MOE

-- John aka "I love it when a plan comes together" Hannibal

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: d.nordquest@juno.com

Subject: [2246] RE: MAGNIFIER LIGHTS

Message-ID: <19961018.102607.4783.1.d.nordquest@juno.com>

A cheap alternative is to buy high-power reading glasses. Big Lots had some for

\$1.00 each at one time. I got 2.5's and 3.5's for close and closer work.

Other discount stores have more fashionable styles for about \$4.00 each.

Dave KE9ED

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996

From: "Phillip S. Rutledge" <rut@mcrut.mv.com>

Subject: [2248] RE: MAGNIFIER LIGHTS

Message-ID: <199610181440.KAA18933@bort.mv.net>

At 10:28 AM 10/18/96 EDT, you wrote:

>A cheap alternative is to buy high-power reading glasses. Big Lots had
>some for
>\$1.00 each at one time. I got 2.5's and 3.5's for close and closer work.
> Other discount stores have more fashionable styles for about \$4.00 each.
> Dave KE9ED

Ah yes, a TRUE ham!! hi hi

Phil Rutledge--KB1G0-- rut@mcrut.mv.com
ARCI#9265=Norcal#1797=N.E. QRP Club#489

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: David.Reid@asm1.nl (David Reid)
Subject: [2224] Re: new cmos cpu keyer
Message-ID: <199610180710.JAA09825@wspub002.asm1.nl>

Dana@Source.Net wrote

>> version is so simple, can be wired on proto board in no time.

>This wheel has already been invented. The CMOS Super Keyer II and III
>have been around for several years, probably hastening the end of
>Curtis ;-).

[...]

>> Since I got to program the CPU chip, you will have to buy them through
>> me, I'll keep the cost real low, under 10 bucks (\$9.95?) for the cpu.
>> PC board and LCD would be extras, may or not want to supply these.

>This is *just like* the Super Keyer II and III: you buy programmed
>chips with no source code, or even object code AFAIK.

Hey - what about a complete keyer on a 1" PCB?

- * using a PIC chip
- * fully Iambic (Mode 'B')
- * have a built in "CQ QRP DE call AR PSE K" message
- * be low on current consumption (1uA in standby -)
- * variable speeds from say 5 WPM to over 50 WPM
- * Variable sidetone to suit your ears (sa 650Hz to 1000Hz...)
- * Low cost, say around \$30

well guys - IT IS ALREADY AVAILABLE - from my company - D.R.Computer Products

interested in a group buy???

Yep - know this is blatant advertising - sorry (wearing flame-proof underwear)

72/72 es gud DX QRP.

Dave Reid
PA/G0BZF

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [2284] Re: Pacificon
Message-ID: <3267DD3D.B35@amsat.org>

DYARNES@aol.com wrote:

>
> Just arrived at the hotel. The good news is that my computer seems to
> connect alright through AOL locally. The bad news is that the windows are
> all bolted shut--so no antennas out the window for me I guess. BOO!
>
> O.K. Chuck--what's the secret?????
>
> Looks like a good showing. Should be fun.
>
> 72 es hope to see a bunch of you here.
>
> David W7AQK

WHAT ???? you dont have a portable drill with the glass drill bit in
your

QRP " GRAB-N-GO " Kit ?????? shame on you.....:-)

Did you not learn anything from all those MISSION IMPOSSIBLE tv shows
!!!!

HI 73 de Phil AC6LS cu at pacificon.....(sat/sun)

NOTICE TO ALL PACIFICON ATTENDEES---- THIS MESSAGE IS FOR THE "SHOPPERS"

ONLY, REPEAT, "SHOPPERS" ONLY --- THE SWAP MEET HAS BEEN CANCELLED,
SO NO NEED TO SHOW UP IN THE AM ON SAT MORN. ---- THAT IS ALL.....

fine print: this is my ploy to have lots of room to myself to get all
the
good bargains with out the competition...the swap IS on.....hi :-)

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2276] RE: Phone Leaks
Message-ID: <Pine.SUN.3.94.961018145953.20088B-1000000@access2.digex.net>

I also remeber the campus AM station using the power lines, but we don't
even have to go that far. Simply walk down to your local Radio Shack &
look at all the house intercoms available. I think they all use
modulated RF on the house wiring now. Also, I think these boxes use FM
not AM to reduce the noise! I wonder if we could up the RF frequency
of these things to be useful ;-)

72 & 73 de KE3FL/Phil Karras
:-)

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: JCoote@aol.com
Subject: [2306] Re: phone leaks
Message-ID: <961018231437_129585719@emout03.mail.aol.com>

In a message dated 96-10-17 22:09:49 EDT, launerb@crl.com (William H. Launer)
writes:

<< Union Electric has installed new meters here in St. Charles, MO that are
remotely interrogated, so no meter reader has to go out and read them. I'm
not sure how it's accomplished, but it seems to work - we haven't gotten
any "estimated" bills since they installed ours!
>>

Might be interesting to AC block a receiver or spectrum analyzer then couple
to the lines and see what's on the air.

(Disclaimer- this is said in the interest of keeping a 'clean' radio site,

free of interference)

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: JCoote@aol.com
Subject: [2307] Re: phone leaks
Message-ID: <961018231515_129585963@emout19.mail.aol.com>

In a message dated 96-10-17 22:23:28 EDT, dledoux@laci.net (Dale LeDoux) writes:

<< At 07:55 10/17/96 -0400, you wrote:

> Also, an engineer at the local power company said they used the power
> lines to send information along in a lot of cases. I don't know
> exactly what they send, but I think he said they would use them for
> voice lines.

>

> 73's,

>

> Ray KN4SK

>

The power company engineer is correct. It is quite common to use an rf carrier in the <100 khz range to transmit data via power transmission lines, and the terminal units for these systems generally have provision for voice communication as well. The rf signal is coupled to the overhead line through a coupling capacitor (nice-sized ones, rated for voltages like 138,000 or 230,000 volts) and the signal is isolated so that it travels in one direction only by means of a wavetrap (a tunable LC network the size of a 55-gallon drum) because you don't want a signal to trip the breaker at the far end of the line to get to the wrong circuit breaker. Cities get dark when that happens. Radiation of the signal is NOT a desired characteristic.

The signals are at QRP levels in some cases. Many of these systems are being replaced by fiber optic lines because they give so much additional bandwidth per installation. Perhaps one of these surplus units might yield some usable parts for a project, but there are richer grounds to search.

72--

Dale LeDoux
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602
>>

A few more remarks about powerline carriers (PLCs). LOWFERS and VLF

listeners have logged PLCs many miles from any power lines. Approximately 8 years ago, I read a newsletter article where one LOWFER logged some SSB or AM traffic (not the military) from a PLC. I guess it might make a good intercom between stations?

A public safety agency I worked for once tried a LORAN (100 Khz) vehicle tracking system. In Southern CA it worked dismally. One of the LORAN transmitters for our "chain" was weak in our area. The local power company was very cooperative in retuning or shutting off their PLCs (many between 90 and 110 Khz) but there were other problems. It was interesting driving around with a loop, VLF convertor and IC-735 to sniff PLCs and interference.

73, Jay
WB6AAM

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: "Ahrens Tim" <tahrens@devmail.sps.mot.com>
Subject: [2265] Re: RST revamped to RSK....
Message-ID: <9609188456.AA845668700@devmail.sps.mot.com>

>.....I was listening around and thinking about some of the stuff that got posted
>to the list this week and it struck me that I could count the number of
>times I've heard a signal with bad tone in the last 7 years on the finger of
>one hand. ;-) It might be more useful to replace RST with RSK and give a
>Keying report. Since we're all computer-literate these days the K values
>would be powers of 2 so they could be combined.....

Come to think of it, the only guys I have ever heard with a buzzy note are those from the islands south of Florida! They had the buzz when I was a novice, & a bunch still do!

Neat idea

cu

Tim WA5VQK

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Ed Tanton N4XY <n4xy@avana.net>
Subject: [2230] Re: SP-600
Message-ID: <32676072.6BD7@avana.net>

Dear Rogerio... I do not YET have an SP600 but is NEXT or 2nd on my list of rcvrs I want to own/collect. I will never forget tuning one when I was a young novice over 30 years ago at our local radio club. I was sort of bitten by the rcvr collector bug a year or two when I acquired a RACAL 6790/GM. I then decided I wanted to add the National HRO series, and now have an HRO50-T1 and am looking for an HRO60. The next rx will be that or an SP600JX17 or better. Fair Radio sales sells an excellent multi-receiver coupler that I plan to use with several of these after I finish a multi-function switching unit I have designed (audio/T-R/keying/PTT/amp & etc.) I would love to hear from you-or anyone else-on these (or other) receivers, and experiences. Not to mention swapping photos of our various receivers. 72/73

--

Ed Tanton N4XY (770) 579-3933 Voice/MBX/FAX Marietta, GA
QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140 NORCAL#1779 NCDXF
Life Member: ARRL AMSAT INDEXA IDRA QCWA
email: n4xy@avana.net URL: Coming Soon

From owner-qrp-l@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>
Subject: [2236] Re: When FOX? Where FOX?
Message-ID: <96Oct18.084428-0400edt.65735-14099+388@hooch.CC.Lehigh.EDU>

> Could someone post a list of fox scheds?

ftp://ftp.lehigh.edu/pub/listserv/qrp-l/foxhunt/schedule
ftp://ftp.lehigh.edu/pub/listserv/qrp-l/foxhunt/rules

Also available from <http://qrp.cc.nd.edu/qrp-l> or via e-mail from
listserv@Lehigh.EDU:

GET QRP-L/FOXHUNT SCHEDULE
GET QRP-L/FOXHUNT RULES

73

Jim N3VXI N3VXI@Lehigh.EDU

Tech+ 40M QSOs=1 STATES(w/c)=1/0 DX=0

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: PDouglas12@aol.com
Subject: [2274] Re: White Mountain 75 SSB rig
Message-ID: <961018141957_214031131@emout06.mail.aol.com>

Dan,

You asked for the address info on the new SWL White Mountain 75m SSB kit.

SWL, a good outfit, just started selling QRP SSB kits for 80m and 20m. They also sell nice CW kits for most of the HF bands. Here's the info, and others may want it too, so I am posting it to the list.

Small Wonder Labs
Dave Benson, Prop.
80 East Robbins Ave.
Newington, CT 06111 (SASE requested if writing)

Tel 860-667-3536
email: bensondj@aol.com

From owner-qrp-1@Lehigh.EDU Fri Oct 18 23:22:34 1996
From: Dale LeDoux <dledoux@laci.net>
Subject: [2296] Re: White Mountain 75 SSB rig
Message-ID: <1.5.4.16.19961018174332.223fbb78@laci.net>

At 13:00 10/18/96 -0400, you wrote:

I plan to use it and the freq readout, is, in my
>opinion a necessity with a ten turn pot. Else, how will I know where I am
>tuned?

>

>I will keep you posted.

>

>72, Preston WJ2V

>

Preston--

If you use a 10-turn pot with a 1/4" shaft, there are several turn-counter dial/knob assemblies available which allow for repeatability in settings. Such items are commonly used in the industrial instrumentation field. You could have settings of 000 to 999 and a corresponding log chart (just like the good ol' days) with one of these setups. It's an alternative approach, but like you, I kind of favor the digital readout...

72--

Dale LeDoux
Bath Electrical Systems
Power Specialists -- 480 V to 230 KV
KD5QI -- QRP-L #602